

Drexel R-IV School **District**



2021-2022

Course Descriptions **and Planning Guide**

Drexel High School
4th and Main
Drexel, MO 64742
(816) 652-0402
<http://drexel.k12.mo.us>

Drexel R-IV School District Mission Statement

It is the mission of the Drexel Public School to recognize its students as special, unique individuals, to provide them with the opportunity to fully develop their mental and physical capabilities, to realize their worth as individuals, and to become productive members of a democratic society.

Drexel High School Graduation Requirements

To meet the requirements for graduation from Drexel High School, a students must earn a minimum of 24 credits. These credits are to be completed during Grades 9-12 and must include courses that satisfy both state and local requirements. As required by state law, students must also successfully pass a State and Federal Constitution test. Specific subject area requirements are as follows:

| <u>Drexel R-IV Graduation Requirements</u> | | |
|---|--------------------------------------|--|
| Curricular Areas | Basic Graduation Requirements | Graduation with College Prep. (Recommended) |
| English Language Arts | 4 credits | 4 credits |
| Mathematics | 3 credits | 4 credits |
| Science | 3 credits | 4 credits |
| Social Studies | 3 credits (Am Govt req)) | 3 credits (Am Govt req.) |
| Fine Arts | 1 credit | 1 credit |
| Practical Arts | 1 credit | 1 credit |
| Physical Education | 1 credit | 1 credit |
| Health Education | 0.5 credit | 0.5 credit |
| Personal Finance | 0.5 credit | 0.5 credit |
| Foreign Language | 0 credits | 1 credit |
| Electives | 7 credits | 4 credits |
| Total | 24 credits | 24 credits |

Courses Offered at Drexel High School

| Content Area | Course | Credit |
|-----------------------|---------------------------------|---------------|
| Agriculture | Ag Science I | 1 |
| | Ag Science II | 1 |
| | Conservation | 0.5 |
| | Landscaping | 0.5 |
| | Vet Science | 0.5 |
| | Agribusiness Management | 1 |
| | Advanced Animal Science | 0.5 |
| | Ag Communication and Leadership | 0.5 |
| | Greenhouse Management (Nursery) | 1 |
| | Food Science | 0.5 |
| | Agriculture Structures | 1 |
| | Agriculture Construction | 1 |
| | Advanced Crop Science | 1 |
| Art | Art I | 1 |
| | Advanced Art (II/III*/IV*) | 1 |
| Business & Technology | Computer Applications I | 0.5 |
| | Computer Applications II | 0.5 |
| | Accounting I | 1 |
| | Accounting II* | 1 |
| | Advanced Accounting* | 1 |
| | Intro to Business | 0.5 |
| | Personal Finance | 0.5 |
| | Business Management* | 1 |
| | IT Essentials | 1 |
| English Language Arts | English I | 1 |
| | English II | 1 |
| | American Literature | 1 |

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|--------------------|---------------------------------|-----|
| | British Literature | 1 |
| | College Prep English* | 1 |
| | Creative Writing | 1 |
| | Intro to Speech | 0.5 |
| | Intro to Dramatics | 0.5 |
| FACS | Foods & Nutrition | 0.5 |
| | World Foods | 0.5 |
| | Career and Family Leadership | 0.5 |
| | Clothing I | 0.5 |
| | Clothing II | 0.5 |
| | Child Development I | 0.5 |
| | Child Development II | 0.5 |
| | Parenting | 0.5 |
| | Housing | 0.5 |
| Mathematics | Algebra IA | 1 |
| | Algebra IB | 1 |
| | Algebra I | 1 |
| | Algebra II | 1 |
| | Geometry | 1 |
| | Probability/Statistics* | 0.5 |
| | Trigonometry* | 0.5 |
| | College Algebra - Pre-calculus* | 1 |
| | Calculus* | 1 |
| | Intro to Computer Science | 1 |
| Health | HS Health | 0.5 |
| Music | HS Band | 1 |
| | HS Choir | 1 |
| Physical Education | HS Physical Education | 1 |
| | Strength and Conditioning | 1 |
| | Anatomy & Physiology* | 1 |

| | | |
|----------------------|---------------------|--------------|
| Science | Biology | 1 |
| | Advanced Biology* | 0.5 |
| | Physical Science | 1 |
| | Physics* | 1 |
| | Any 3 Ag Classes | 1 |
| Social Studies | American Government | 0.5 |
| | American History | 1 |
| | Geography | 0.5 |
| | History of Sports | 0.5 |
| | Psychology | 0.5 |
| | Sociology | 0.5 |
| | World History | 1 |
| Additional Electives | A+ Tutoring | 1 (A+ hours) |
| | Library Science | 1 |
| | Teacher Assistant | 1 |

* Class is considered a “Weighted Class.” See JH/HS Handbook for details.

Dual Credit Program

Sophomores, Juniors, and Seniors may be eligible to enroll in On-Line credit classes. Drexel R-IV has a dual-credit agreement with Missouri Southern State University for students to obtain both college and high school credit. Drexel R-IV School District does not set the criteria for students to be eligible for dual credit. The website for MSSU Dual Credit is <https://www.mssu.edu/academics/dual-credit/>.

Eligibility for Dual Credit Courses is defined as:

- Minimum cumulative GPA of 2.5 or higher
- Satisfactory scores of subject matter tests and/or ACT (see MSSU website link above)**
- Recommendation of the high school counselor and/or principal.

**All courses are subject to the requirements of MSSU. Some courses require prerequisites and sufficient ACT or ACCUPlacer scores prior to admission. Students/Parents are responsible for all tuition/fees/textbooks.

All Dual Credit classes will be considered “Weighted.” For course offerings/descriptions, please follow the link below.

<https://docs.google.com/document/d/1ufSjkZhVVmjKMODoOb73eWehRBALoOPb5R5JZRQYkfl/edit?usp=sharing>

Work Study Program Overview

The Drexel R-IV School district, in partnership with our community, is committed to empowering all students to meet their potential for academic excellence, leadership development, personal growth, and career success. Many students can benefit substantially from school-directed and supervised paid or unpaid learning experiences that cannot be readily provided in a regular classroom setting. Drexel High School and the Missouri Department of Elementary and Secondary Education recognizes, and will approve types of off-campus learning experiences for elective credit.

Program Qualifications

- Student must be a Senior with a minimum of 20 credit hours.
- Student must complete an application for the Work Study program outlining their career goals and rationale for participation in the program.
- Student must secure an employer that agrees to mentor/supervise the student. Employer will be contacted regularly to discuss the progress/attendance of the student.
- Student must secure a position of employment that will require a minimum of 10 hours per week to earn 0.5 credit hours per semester **-OR-** 20 hours per week to earn 1.0 credit hours per semester.
- Student will be responsible for his/her transportation to and from the place of employment.
- Student must request Work Study approval the semester prior to participation in the program.

Hourly Requirements

- 10 documented hours per week = 0.5 credit hours per semester
- 20 documents hours per week = 1.0 credit hours per semester
- No more than **two units** of credit may be awarded during the school year.

Procedures

- Student will complete a Work Study Application no later than the spring semester of their Junior year.
- When approved, student must sign out each day in the counselor's office before leaving campus.
- A grade of Pass (P) or Fail (F) will appear on the report card indicating the grade earned for the work completed. The Work Study grade will not count toward the student's GPA or class rank.
- It will be the student's responsibility to inform Administration/Counselor of a change in employment status.

To Enroll: Complete a Work Study form with Mr. Stackhouse prior to desired Semester

Preparing Students for College and Career Readiness

Missouri Connections

Students will be regularly exposed to interest inventories and assessments. These assessments are meant to help aid students in determining which career path and cluster they are best suited for as according to the Missouri Department of Elementary and Secondary Education. All Drexel High School students have an account made for them. For account information, please contact Mr. Stackhouse

You can access the Missouri Connections website at the following link:

<https://portal.missouriconnections.org/>

ASVAB Test (10th Grade)

The ASVAB is not just a test for students planning on joining the military. For college-bound students, the ASVAB may well help them to decide on a college major/minor. The ASVAB is a career exploration assessment designed to measure aptitudes in four domains: Verbal, Math, Science and Technical, and Spatial. This assessment will provide beneficial feedback for students who plan to pursue further education or enter the workforce right away. Since aptitudes are fairly stable throughout life, identifying those abilities and building upon them is a natural career choice.

ACT Test (11th Grade)

The ACT is a national college admissions examination that consists of subject area assessments in: English, math, reading, and science. All Juniors will take the ACT in April as required by the Missouri Department of Elementary and Secondary Education. To ensure that students master the knowledge and skills to succeed after high school, ACT recommends that students take a core curriculum consisting of at least:

- Four years of English
- Three years of mathematics, including rigorous courses in Algebra I, Geometry, and Algebra II
- Three years of science, including rigorous courses in Biology, Chemistry, and Physics
- Three years of social studies

For ACT test dates, and to register for the ACT, please follow this link:

<http://www.act.org/content/act/en/products-and-services/the-act/registration.html>

English Language **Arts**

English I

Grade: 9

Credit: 1.0

This course will build a solid foundation of knowledge, skills, and strategies for students. Students will engage in more complex ideas, texts, and tasks. Students will be introduced to various genres of classical literature as well as fiction and non-fiction selections and novels. In addition, students will be introduced to a variety of informational texts which will require critical thinking skills essential for today's success in social, academic, and business or technical situations, while developing and enhancing their grammar, vocabulary, and writing skills.

English II

Grade: 10

Credit: 1.0

Prerequisite: English I

Studying topics in grammar, vocabulary, and composition; study and apply the basic principles employed in writing a research paper. Students will learn to improve their reading and writing skills of narrative, persuasive, technical, and expository essays. Through the different genres of literature that will be used, students will be asked to respond in creative and analytical forms. Students will also create and present various projects throughout the year. This class will be required to complete an English II Missouri End of Course exam.

American Literature

Grade: 11

Credit: 1.0

Prerequisite: English II

A survey of American literature from the period of exploration and settlement to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors based on what they reflect and reveal about the evolving American experience and character.

British Literature

Grade: 11

Credit: 1.0

Prerequisite: English II

Students will focus on the dynamics and structure of the English language, including the essential skills of composition development, writing style, critical reading, writing and analysis, academic vocabulary, grammatical structure, and academic verbal discussion as outlined by the teacher. Students will study various early forms and types of texts writing in the English and British traditions, including novels, poetry, and visual texts.

College Prep English*

Grade: 12

Credit: 1.0

Prerequisite: American/British Literature with a minimum grade of 80% OR teacher approval
College Prep English is a course designed to prepare students for English at the collegiate level. The emphasis in this class is college-level writing, including descriptive, narrative, and persuasive essays.

The class includes two novel units and an abbreviated research paper. It is a writing-intensive class. Students will also create and present various projects throughout the school year.

Intro to Speech

Grade: 10, 11, 12

Credit: 0.5

Prerequisite: English I

Introductory course in speech communication, which emphasizes the fundamentals of public speaking. Students will focus on research, organization, reasoning, style, and delivery of presentations in this course. Students will develop poise and confidence in public speaking, while also understanding the speaker-audience relationship.

Intro to Drama

Grade: 10, 11, 12

Credit: 0.5

Prerequisite: English I

This course introduces students to the field of theater and acting. Students will explore the process of developing a production, from page to stage, as well as learn about the history of theater and its impact on society both historically and in the present. Students will understand the different roles and careers that go into the development, production, and execution of a live performance.

Creative Writing

Grade: 10, 11, 12

Credit: 1.0

Prerequisite: English I

Creative Writing is designed for students to create original forms of descriptive writing, poetry, drama and fiction. Vocabulary development, creative writing techniques, and skills are explored. Students submit their work to local and national magazines. Computers and word processing are used for composition. Writings are presented orally and in written form.

Mathematics

Algebra IA

Grade: 9

Credit: 1.0

This course will review topics covered in 8th grade Algebra. Other areas to be covered include exponents, set notation, inequalities, solving multi-variable equations, factoring polynomials, linear graphing and probability. This course is part of a two year program to prepare students for advanced mathematics.

Algebra IB

Grade: 10

Credit: 1.0

Prerequisite: Algebra IA

This course serves as a continuation of Algebra IA, covering similar areas in more depth. Subjects to be covered include exponents, set notation, inequalities, solving multi-variable equations, factoring polynomials, linear graphing, and probability. This course is part of a two year program to prepare students for advanced mathematics. This class will be given the Missouri End of Course exam for Algebra I.

Algebra I

Grade: 9

Credit: 1.0

Prerequisite: Math department approval in 8th grade algebra

This course serves as a combined course of Algebra IA and IB, covering exponents, set notation, inequalities, solving multi-variable equations, factoring polynomials, linear graphing, and probability. To be eligible for this course, students must have the approval of the math department. This class will be given the Missouri End of Course exam for Algebra I.

Intermediate Algebra

Grade: 11,12

Credit: 1.0

Intermediate Algebra is a preparatory course that can be taken between Algebra I and Algebra II. The course covers operations with real numbers, graphs of functions, domain and range of functions, linear equations and inequalities, quadratic equations; operations with polynomials, rational expressions, exponents and radicals; equations of lines. Emphasis is also put on problem-solving.

Geometry

Grade: 10-12

Credit: 1.0

Prerequisite: Algebra IA and IB **OR** Algebra I

In Geometry, students will develop reasoning and problem solving skills as they study topics such as congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. Students will also develop problem solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real-world problems. In addition to the geometry content, students will be provided with several topics that appear on standardized tests which include algebra, data analysis, and probability type problems.

Algebra II

Grade: 10-12

Credit: 1.0

Prerequisite: Algebra IA and IB **OR** Algebra I

This course is a transition between Algebra I and College Algebra. Time will be spent reviewing some of the topics from Algebra I, but several new topics will be introduced. Topics covered will include: exponent rules, matrices and determinants, polynomials, graphing linear and quadratic functions, trip functions and graphs, growth and decay functions, complex numbers, probability, and logarithms. This course will provide a solid foundation for success on the math portion of the ACT and success in College Algebra.

College Algebra - Pre-calculus*

Grade: 11 - 12

Credit: 1.0

Prerequisite: Algebra II

Pre-calculus is the study of inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations, matrices, series and sequences, and conic sections. Students planning to attend college are encouraged to take this course. In addition, College Algebra and Pre-calculus will address skills necessary to the students' success on the various college entrance exams, such as the ACT. This class may be taken for college credit.

Calculus*

Grade: 12

Credit: 1.0

Prerequisite: College Algebra - Precalculus

Calculus is the study of limits, derivatives and integrals of algebraic and transcendental functions, graphing and extreme value problems. A high percentage of the course will have students looking at real-life applications for mathematics. Students who plan to pursue careers in engineering, physics, accounting/business, computer programming, pharmacy, or mathematics should take this course. By the time you complete the course you will have covered all of college Calculus I and the first couple weeks of Calculus II. This course may be taken for college credit.

Probability and Statistics*

Grade: 11-12

Credit: 0.5

Prerequisite: Algebra II

This course is a non-rigorous mathematical examination of elementary probability and statistics. Topics to be covered include gathering and analyzing data, graph construction, rules of probability and various distributions, estimation, hypothesis testing, and linear correlation and regressions. Time will also be spent having students apply inferential statistics to real life data in the areas of sociology, business, economics, politics, medicine, and psychology.

Trigonometry*

Grade: 11-12

Credit: 0.5

Prerequisite: Algebra II

Trigonometry is the study of the six basic trigonometric functions, solutions of triangles, trigonometric identities, graphing functions, solving equations, and apply the ideas to real-world situations. Students planning to attend college are encouraged to take this course. In addition to course content, this class will address skills necessary to students' success on the various college entrance exams such as the ACT. This class may be taken for college credit.

Intro to Computer Science

Grade: 10, 11, 12

Credit: 1.0

An interactive introductory course for students brand new to programming that teaches the foundations of computer science. This course will teach students how to think computationally and solve complex problems, skills that are important for every student.

Science

Physical Science

Grade: 9

Credit: 1.0

Physical Science involves the basics of physics & chemistry, why & how things happen, and the physical laws of nature. This two-semester course is a graduation requirement with no prerequisites. The purpose of this course is to expose students to the concepts of different forms of energy and how they can be transferred; the interactions between energy, force, and motion; work; the purpose and use of the Periodic Table of Elements; chemical reactions; forms and interactions of matter.

Biology

Grade: 10

Credit: 1.0

Biology is the study of life. This two-semester course is a graduation requirement with no prerequisites. There is a state-imposed end-of-course exit exam in the spring. The purpose of this course is to expose students to the concepts of what constitutes life; how chemistry factors into living things; what cells are and how they work; genetics; evolution; how life is organized; and ecological concepts. This class will be given the Missouri End of Course exam for Biology.

Advanced Biology*

Grade: 11, 12

Credit: 1.0

Prerequisite: Biology

This is a rigorous college preparatory course emphasizing biological research and analysis. The course briefly reviews concepts from Biology I and moves on to pursue other areas in more depth. The course focuses on ecology, biotechnology, genetics, evolution, current research, and environmental issues. Students who wish to independently investigate some of their own interests in biology are encouraged to enroll. The course follows the Biology curriculum from Missouri Southern State University, and can be counted as dual credit upon completion.

Anatomy & Physiology*

Grade: 11-12

Credit: 1.0

Prerequisite: Biology and Physical Science

Anatomy is the study of structure (morphology) of the human body; Physiology is the study of how the structure functions. This weighted, college-preparatory class is recommended for college-bound Juniors & Seniors. The purpose of this course is to further expose students to the structure and function of the human body; organizational features; homeostatic mechanisms; the chemistry of life functions; cells and tissues; metabolism; transport; body systems; and the human life cycle.

Physics

Grade: 11-12

Credit: 1.0

Prerequisite: Physical Science

Physics is the study of natural phenomena. Included in this broad category are the study of mechanics, heat and thermodynamics, wave motion and sound, electricity and magnetism, light and optics, and modern physics. The scope of physics varies from the very small (atoms and sub-atomic particles) to the very large (our solar system and beyond); from the slow (the motion of a tortoise) to

the very fast (the motion of charged particles in high energy accelerators). Class structure will be lecture/discussion mixed with labs used to discover physics concepts and competitions to allow the students to apply some of these concepts. Basic math skills will be necessary for some of the topics discussed.

Social Studies

World History From 1500

Grade: 9

Credit: 1.0

The Modern World History course provides an overview of the history of human society in the past few centuries - from the Renaissance period to the contemporary period - exploring political, economic, social, religious, military, scientific, and cultural developments.

American History From 1877

Grade: 10

Credit: 1.0

This course provides students with an overview of the history of the United States, examining time periods from Civil War Through the late 20th century. This course includes a historical overview of political, military, scientific, economic, and social developments.

American Government

Grade: 11

Credit: 0.5

The basic objective of the course is to provide students with the knowledge necessary to participate as citizens in governmental affairs. The topics covered will include: the constitution, its historical background and the principles incorporated into it; the federal government, including the executive, legislative, and judicial branches and the federal bureaucracy; state and local government; elections, voting behavior, political parties, the media, interest groups, and political behavior. A minimum passing score of 60% will be required by the State of Missouri on both the US Constitution test and the US Citizenship test as mandated by the Missouri Civics Education Initiative as a requirement for graduation

Geography

Grade: 10-12

Credit: 1.0

This course will cover units emphasizing physical geography, cultural geography, and environmental geography. Students will be expected to use maps, globes, and other graphic tools successfully to acquire and process geographic information. They will be expected to develop a spatial view of the world, including cultural physical characteristics of places and regions.

Sociology

Grade: 10-12

Credit: 0.5

Sociology provides students with the opportunity for open discussion and inquiry into modern society and its impact on the individual. Students will study topical areas including: socialization (how individuals develop as they do), social institutions (the family, religion, education, politics and economics), and stratification (our social class systems, prejudice and discrimination).

Psychology

Grade: 10-12

Credit: 0.5

Psychology is the study of behavior of an organism in response to its environment. In this course, emphasis is placed on the behavior of humans. Students will learn that many of the behaviors they attribute to others are actually reflections of their own needs and wants. To accomplish this, students

will study theories of learning, intelligence, personality, behavior disorders, and the influence of heredity and environment

History of Sports

Grade: 10-12

Credit: 0.5

This class is a comprehensive history of sports. Students will explore the origin of athletics and the ways that popular sports and rules have changed over time, how unorganized and impromptu athletic activities as well as “blood sports” like boxing and football were transformed into spectator sports at the collegiate and professional level, and the ways in which sports reflected and informed issues of race, class, gender, ethnicity and international politics. Students will look at the difference between professional and amateur sports. During this semester course we will cover controversy in sports (fights, steroids, rivalries, etc.), civil rights, sports tragedies, humor in sports, athletic finances and franchises, college recruitment, bracketology, and many other sports related topics. The major sports covered will be the Olympics, football, baseball, basketball, and golf. The course will consist of films, readings, research projects, lectures and class discussion.

Practical Arts

Agriculture

Note: All Ag classes require FFA Membership

Ag Science I -- Animal Sciences

Grade: 9-12

Credit: 1.0

A course designed as an introduction to the FFA organization and general animal science. Units of instruction will include animal breeds, animal reproduction, animal nutrition and health, and food science. An introduction to Supervised Agricultural Experience programs, leadership development, and career development are also included. Personal and agricultural finance using the MO FFA Record Book System will be taught in the beginning of second semester.

Ag Science II -- Plant Sciences

Grade: 10-12

Credit: 1.0

Prerequisite: Ag Science I

Ag Science II is designed as an introduction to plant sciences, conservation and the horticulture field. Instructional units include soil science, plant growth & reproduction, land use and regulations, Forestry and agribusiness. Prepared Public speaking, goal setting, group dynamics and advocacy will also be instructional units. Personal and agricultural finance using the MO FFA Record Book System will be taught in the beginning of second semester.

Agribusiness Management -- Economics and Sales (Even School Years)

Grade: 11-12

Credit: 1.0

Prerequisite: Ag Science I or concurrent enrollment

A course that combines economic principles of business with sales, management, and service skills. Economic principles will include supply/demand, fix/variable cost, and time value of money, futures/options/stock market, business management and price forecasting. Sales units will include human relations, personal inventory, careers, sales presentations, customer relations, marketing, purchasing, grading and transporting.

Food Science (Even Spring Semesters)

Grade: 10-12

Credit: 1.0

Prerequisite: Ag Science I and Ag Science II or concurrent enrollment

Food Technology is a course that introduces students to food science, with emphasis on world food production, food safety, consumer preferences, government regulations, and value-added processing. Topics and skill areas include carcass evaluation; retail cuts; packaging and labeling; fresh and preserved foods; fruits and vegetables; marketing; and displaying food products.

Agricultural Construction (Even school years)

Grade: 11-12

Credit: 1.0

Prerequisite: Ag Science I and Ag Science II

Instruction will include identification of common metals, power tool and shop safety, arc welding, oxyacetylene cutting, plasma cutting, MIG welding, and metal project construction. All students will have to pass shop safety tests with 100% accuracy in order to be allowed in the shop laboratory.

Agricultural Structures (Odd school years)

Grade: 11-12

Credit: 1.0

Prerequisite: Ag Science I and Ag Science II

Students enrolled in Agricultural Structures will explore the planning and arrangement that goes into converting acreage into a well design plan including a home and outbuildings. They will learn about environmental factors that determine how a property is arranged as well as how slope, proximity to utilities, and other factors affect where a farmstead is placed. Students will also work constructing a small building or working on small wood projects. An introduction to electrical wiring, concrete and building fences will be included in the year long course.

Greenhouse Management (Nursery) (Odd school years)

Grade: 10-12

Credit: 1.0

Prerequisite: Ag Science I

Students in Greenhouse Operation and Management develop basic skills needed in the operation and management of a production greenhouse. Units of instruction include career opportunities, an introduction to the floriculture and horticulture industries, plant anatomy and propagation, growing media, pest control/management and marketing. Leadership training and record keeping skills will also be addressed in this course.

Advanced Animal Science (Odd Fall Semesters)

Grade: 11-12

Credit: 1.0

Prerequisite: Ag Science I and Ag Science II

A course designed to cover all phases of animal agriculture industry, including the economic impact of animal agriculture upon the United States and the world, animal genetics, anatomy and physiology, growth, reproduction, artificial insemination, lactation, egg laying, nutrition, animal disease, animal research, animal industries, livestock selection, production and management. Review of the Supervised Agricultural Experience Program and agricultural record keeping using the Missouri Secondary Record Book will also be a major focus.

Business

Accounting I

Grade: 9-12

Credit: 1.0

Accounting I will introduce students to the basic aspects of accounting and will include financial activities for a business organized as a proprietorship and as a partnership. Units on cash control systems and payroll will also be introduced.

Accounting II

Grade: 10-12

Credit: 1.0

Prerequisite: Accounting I

Accounting II will continue the basic concepts/aspects taught and learned by students in Accounting I for a business organized as a proprietorship and as a partnership. Accounting II will introduce a

business organized as a corporation and how the accounting systems will differ from a proprietorship and partnership.

Advanced Accounting

Grade: 11-12

Credit: 1.0

Prerequisite: Accounting II

Advanced Accounting will continue the basic concepts/aspects taught and learned by students in Accounting I for a business organized as a proprietorship and corporation. Advanced Accounting will continue to develop accounting skills and introduce departmentalized accounting, accounting adjustments and valuation, and managerial accounting. Students will gain skills they will need as college level accounting students.

Business Math

Grade: 11-12

Credit: 1.0

Prerequisite: Personal Finance

This course is designed to build the knowledge and skills necessary to solve a variety of arithmetic problems that are commonly found in business situations. Students will use critical thinking skills to develop and gain knowledge about the following subjects: Gross Pay, Net Pay, Banking, Credit Cards, Loans, Owning a car and home, Insurance and Investments, Budgets, Business Costs, Sales and Marketing, Manage People and Inventory, Business Profit and Loss, and International Business.

Computer Applications I

Grade: 9-12

Credit: 1.0

This course will provide an opportunity for students to develop basic skills in word processing, spreadsheet management, presentation management, and graphics, as well as other practical office skills such as using written and oral communication skills.

Advanced Computer Applications

Grade: 10-12

Credit: 1.0

This course is designed to provide the learner with some of the skills that are necessary to operate a computer in the home, office, or the college classroom. This course will cover advanced skills in Microsoft Word, Excel and PowerPoint.

Introduction to Business

Grade: 9-10

Credit: 0.5

The goal of this class is to help students develop critical and creative thinking skills in relation to issues in the world of business and governments. Students will be introduced to the functions of modern business practices, including arithmetic skills, vocabulary building, writing skills, & vocational guidance in business. Included are units on Business in the Global Economic Environment, Business Organization and Management, Business in the Global Economic Environment, & Financial Management.

Management

Grade: 11-12

Credit: 1.0

Prerequisite: Introduction to Business

This course covers basic areas of Business Management, Business Law, and Marketing. Through Business Management students will learn the basic managerial skills: planning, organizing, implementing and controlling. Through Business Law students will be introduced to Law concepts and different employer/employee court cases that show how the legal system and the business world coincide. Through Marketing students will be introduced to the four “P’s” of Marketing: Product, Price, Place and Promotion. Through the four “P’s” students will develop a product, design promotion for a product, and develop a price and place for product. This course will help students develop management skills in the areas of communication, decision-making, and leadership

Personal Finance

Grade: 11-12

Credit: 0.5

This one-semester course is based on the Missouri Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real world financial issues. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success

IT Essentials

Grade: 10-12

Credit: 0.5

The goal of this course is to introduce you to computer hardware and software, as well as operating systems, networking concepts, mobile devices, IT security, and troubleshooting. The course materials will assist you in developing the skills necessary to work as a technician in the field of IT.

Multimedia

Grade: 10-12

Credit: 0.5

This one semester course provides a foundation in various media including image editing, desktop publishing, audio and video production, animation, and social media. Students will use creative design skills to develop individual and team projects. Time management will be essential to success. Final evaluation includes an electronic portfolio.

Family and Consumer Sciences

Foods I

Grade: 9-12

Credit: 0.5

This course prepares individuals to understand the principles of nutrition; the relationship of nutrition to health and wellness; the selection, preparation, and care of food; meal management to meet individual and family food needs and patterns of living; food economics and ecology; optimal use of the food dollar; understanding and promoting nutritional knowledge; and application of related math and science skills.

World Foods

Grade: 9-12

Credit: 0.5

Prerequisite: Foods I

This course is designed to introduce students to a variety of cuisines and cultures from around the world. Students will utilize various resources to research geographical, social, historical, and political information, as well as recipes and food preparation techniques for each country studied. Students will gain hands on experiences in preparing foods from around the world.

Career and Family Leadership

Grade: 9-12

Credit: 0.5

This course focuses on how individuals develop and function in family, work, and community settings and how they relate to their physical, social, emotional, and intellectual environments. Students: a) learn about personal growth and leadership; b) explore work, jobs, and careers related to family consumer sciences and human services; c) solve problems impacting the work of the family; d) make decisions that support and strengthen the integration of multiple roles/responsibilities of individuals, family, career and community.

Clothing I

Grade: 9-12

Credit: 0.5

This course is designed to help individuals understand the social, psychological, and physiological aspects of clothing and textiles; the nature, acquisition, and use of clothing and textile products; the selection, construction, maintenance, and alteration of clothing and textile products; and the effect of consumer choices on the individual and family as well as the clothing and textile industry.

Clothing II

Grade: 9-12

Credit: 0.5

Prerequisite: Clothing I

A course designed to extend knowledge gained in apparel and textiles for the advanced student interested in fashion, fabric properties, recycling of clothing and textile items, and creative construction techniques including tailoring.

Child Development I (Even school years - Fall)

Grade: 11-12

Credit: 0.5

This course focuses on the intellectual, social, emotional, and biological development of children. It includes instruction in parent-child relations, parenting practices, special needs of children, parental and environmental influences on child development, external support services, and related public policy issues.

Child Development II (Even school years - Spring)

Grade: 11-12

Credit: 0.5

Prerequisite: Child Development I

This course provides advanced study in child development and guidance, including the physical, social, and intellectual development of children. Actual experience in supervising children provides the opportunity to improve parenting skills, explore careers related to the child development, and identify general employment skills.

Parenting (Odd school years - Fall)

Grade: 11-12

Credit: 0.5

This course focuses on the effects of parenting roles and responsibilities on strengthening the well-being of individuals and families. Students analyze roles and responsibilities of parenting; evaluate parenting practices that maximize human growth and development; evaluate external support systems and community resources that provide services for parents; and analyze physical and emotional factors related to beginning the parenting process. Careers related to parenting are investigated. Instruction emphasizes leadership, problem-solving, and communication skills in parenting techniques.

Housing and Design (Odd school years - Spring)

Grade: 11-12

Credit: 0.5

This course introduces students to the behavioral, social, economic, functional, and aesthetic aspects of housing, interiors, and other built environments. The course includes instruction in analyzing, planning, designing, furnishing, and equipping residential, work, and leisure spaces to meet user needs and the study of related public policies. This course includes both consumer and career preparation for careers such as interior design, construction, and real estate.

Fine Arts

Art

Art I

Grade: 9-12

Credit: 1.0

This course offers basic instruction in 2D Art (drawing and painting) and various other projects. Approximately one semester will be spent in each.

Art II

Grade: 10-12

Credit: 1.0

Prerequisite: Art I with minimum grade of 'C' average

This course emphasizes advancing basic skills to encourage creativity and originality. Students will gain experience in various art media including: drawing, painting, commercial art, fibers, and design.

Art III*

Grade: 11-12

Credit: 1.0

Prerequisite: Art II with minimum grade of 'B' average

Individualized programs are designed to emphasize advanced basic skills and to encourage creativity and originality. Students will gain experience in various art media including: drawing, painting, commercial art, fibers, and design.

Art IV*

Grade: 12

Credit: 1.0

Prerequisite: Art III with minimum grade of 'B' average

Advanced individualized programs are designed to emphasize advanced basic skills and to encourage creativity and originality. Students will gain experience in various art media including: drawing, painting, commercial art, fibers, and design.

Music

Concert Choir

Grade: 7-12

Credit: 1.0 (0 for 7-8)

High School Choir provides you with the opportunity to be a team member in a performing choral ensemble. It will expose you to various styles of choral music and help develop student confidence and proficiency in the areas of vocal technique, musicianship, and public performance. Choir will also aid in understanding the components and history of different styles of music through class discussion and listening. Students are required to perform in concerts each semester in order to receive a fine arts credit. *This is a year-long class.*

JH Band

Grade: 7-8

Credit: None

JH Band provides you with the opportunity to be a team member in a performing instrumental ensemble. Band will expose you to various styles of instrumental music and help develop student

confidence and proficiency in the areas of instrumental technique, musicianship, and public performance.

Concert Band

Grade: 9-12

Credit: 1.0

Prerequisite: JH Band

Concert Band provides you with the opportunity to be a team member in a performing instrumental ensemble. Band will expose you to various styles of instrumental music and help develop student confidence and proficiency in the areas of instrumental technique, musicianship, and public performance. Students will perform in concerts, at pep rallies, and home football games. This is a year-long class.

Physical Education and Health

Physical Education

High School Physical Education

Grade: 9-12

Credit: 1.0

This course will help students to refine fundamental movements, balance, and manipulative skills; increase flexibility, fitness, strength, and conditioning; and improve sportsmanship and cooperative learning skills. This course will also improve the student's ability to dance and play team and individual sports.

Strength & Conditioning

Grade: 9-12

Credit: 1.0

This class is for the student who wants to build strength, self-esteem, and enhance his or her physical appearance in a social atmosphere. Students will be put on an individual weight-training and conditioning program and will be graded on participation, not on how much they lift. We will be using free weight, weight machines, and performing agility drills.

Health

Health

Grade: 9-12

Credit: 0.5

Health is a course designed to enhance the student's understanding and concern for the health and safety of him/herself and others. The course will focus on making decisions which will assume healthful consequences, coping with the health problems of everyday life, and developing a self-directed lifestyle that will promote a desirable set of values. Students will learn that health is the state of total physical, mental, and social well-being, not just freedom from sickness or ailments. Someone who is totally healthy has many relationships that enrich his or her life.

Electives

Electives

Library Science

Grade: 10, 11, 12

Credit: 1.0

Prerequisites: Computer Applications I, a good attendance record, and approval from librarian
Library Science provides students an opportunity to work in the library media center (LMC). Library assistants will become acquainted with the day-to-day operation of a LMC. Course content may include organization of the media center, use of audio visual equipment and computers, materials processing and other clerical tasks, circulation of materials, and patron assistance. A library assistant must be willing to work courteously with peers, elementary students, faculty and staff in both individual and group settings. Grades are based on a combination of written “tests” and assessment of actual tasks performed.

Teacher Assistant

Grade: 12

Credit: 1.0

Prerequisites: Approval from teacher

Students working as Teacher Assistants will be expected to carry out duties to assist the teacher of the class. Assistance may include, but is not limited to: Making copies, delivering messages or items to other staff members, and assisting other students in the classroom with tasks. Students **must** gain approval from the teacher they wish to assist prior to being signed up for this class.

Yearbook

Grade: 9,10, 11, 12

Credit: 1.0

Yearbook focuses on using technology intended to reach a mass audience. This course will focus on the usage of digital technology to collect and organize Drexel’s yearly events.

A+ Program

A+ Schools Program (Tutoring/Mentoring)

Grade: 11, 12

Credit: 0.5

Prerequisites: Proficient or advanced score on Algebra I EOC

Drexel High School has met the requirements to provide the A+ program to our students. Students who meet the eligibility requirements and graduate from the A+ program may qualify for a state-paid financial incentive to attend any public community college or career/technical school in Missouri. The A+ coordinator can provide specific information regarding eligibility. This class is intended to help students earn their 50+ non-paid tutoring hours, as required for A+ eligibility.

Career/Vocational **Education**

Cass Career Center Programs

Drexel High School is excited to have more opportunities to further educate our students. The Cass Career Center, located in Harrisonville, MO, provides our students with access to many practical career pathways. Most of these programs are two year programs, but are open to both Juniors and Seniors each year. Students will have the opportunity to apply for any of the programs listed below. If there is more student demand than seats available, Drexel administration will decide student priority based on GPA, attendance, and discipline record. **Students that attend a Cass Career Center Program will be required to attend the program Monday through Friday.**

Automotive Technology

Grade: 11-12

Credit: 1.5

Year One: Automotive Electrical and Brakes

This program includes an introduction to automobile and chassis design, automotive electricity, breaks, and testing electrical systems. In addition, students will be trained and tested in shop and equipment safety. Students will explore career opportunities offered in the Distribution, Transportation, and Logistics career clusters. All students must visit with instructor prior to enrolling in class. The visit will include a short test of math, language and mechanical ability. Students will be eligible to sit for NATEF/ASE student exam upon successful completion of program.

Year Two: Automotive Steering and Engine

This program includes an introduction to automobile and chassis design, fuel systems, wheel suspension systems, tune-up procedures, and emissions systems. In addition, students will be trained and tested in shop and equipment safety. Students will explore career opportunities offered in the Distribution, Transportation, and Logistics career clusters. All students must visit with instructor prior to enrolling in class. The visit will include a short test of math, language and mechanical ability. Students will be eligible to sit for NATEF/ASE student exam upon successful completion of program.

Construction Technology

Grade: 11-12

Credit: 1.5

Year One: Construction Technology Exterior

This program will focus on the total construction industry. Students will learn construction safety, rough-in/framing, doors, windows, siding, roofing, and concrete skills. General math and tape measure reading necessary. Students will receive their Bobcat Operator and Safety Training Certificate. Students meeting requirements will have the opportunity to receive advanced placement with the Association of General Contractors (union) and certification with the Associated Builders and Contractors (union and nonunion).

Year Two: Construction Technology Interior

This program will focus on the total construction industry. Students will learn construction safety, plumbing, electricity, HVAC, insulation, drywall/finishing, trim, cabinet installation, and installation of alarm systems and computer/TV cabling systems. General math and tape measure reading necessary. Students will receive their OSHA 10 hour Training Certificate. Students meeting requirements will have the opportunity to receive advanced placement with the Association of

General Contractors (union) and certification with the Associated Builders and Contractors (union and nonunion).

Fire Science

Grade: 11-12

Credit: 1.5

Prerequisite: Minimum of a 2.5 GPA; 90% attendance record; good reading, writing, & math skills. An interview with the instructor prior to enrollment.

Upon successful completion of this course the student will have received training for certification as a Firefighter I & II, Hazardous Materials Awareness & Operations and National Incident Management System (NIMS 100, 200, & 700).. **A class uniform will be required.** This course is both a physical and knowledge demanding course and students will participate in active physical training. Successful completion of all required courses allows the student to be eligible for testing as a firefighter through the Missouri Division of Fire Safety. **Students must be 17-years-old by October 31st during the Firefighter training year to be eligible for state certification examinations.** The requirement by the Missouri Division of Fire Safety and the IFSAC requires this in order to take any certification exam for this course. **Suggested Requirements:** Students have completed at their home school an appropriate standardized test battery (General Aptitude Test Battery (GATB), Differential Aptitude Test Battery, and Apticom) and a standardized test of reading achievement. Aptitude batteries assess capacities and abilities necessary to competently perform the responsibilities of the Firefighter/EMT such as learning ability, verbal, numerical and spatial ability, form & clerical perception, motor coordination, finger and manual dexterity, eye-hand-foot coordination, color discrimination. Students are encouraged to participate in SkillsUSA student organization. There is a fee associated with membership for dues. Participation in a fundraiser or optional buyout will be required to help cover charges associated with competitions.

Criminal Justice

Grade: 11-12

Credit: 1.5

Prerequisite: Application and Interview

This 2 year program is a general introduction to the American criminal justice system with emphasis on law enforcement. Students will investigate US constitutional law and the Missouri criminal code as well as many aspects of law enforcement such as professional ethics, evidence procedure, crime scene and accident investigation, and types of law enforcement equipment used in industry today. There will be a strong connection to industry and students should be prepared for dealing with real world scenarios in a mature and professional manner. A class uniform will be required. This course is both a physical and knowledge demanding course and students will participate in active physical training.

Health Sciences

Grade: 11-12

Credit: 1.5

Prerequisite: Application and interview with instructor; Minimum of a 2.5 GPA, 90% attendance; good reading, writing, math & communications skills.

Students enrolling in this program will have the opportunity to learn basic health care skills to prepare them to directly enter the health care field or to continue their education in the health care field. Students will learn basic health assistant skills, medical terminology, anatomy and physiology, and research various health care careers. Students will work hands-on in a long term health care facility and have the opportunity to participate in job shadowing in various departments in the hospital setting such as emergency room, laboratory, radiology, PT/OT, nursing, and medication order entry. In addition, students will have shadowing opportunities in fields such as chiropractic, veterinary, daycare, and dental. Students may complete the requirements to obtain their CNA certification in this class. **ALL students must submit a valid Social Security card and successfully pass a background check in order to meet the requirements of this program.**

Emergency Medical Technology -- Basic (EMT)

Grade: 11-12

Credit: 1.5

Prerequisites: Minimum of a 2.5 GPA; 90% attendance record at home high school; good reading, writing, and math skills. An interview with the instructor.

Basic life support and emergency care skills taught. The student receives instruction for the skills necessary to detect signs, symptoms, and procedures of field management for emergency medical situations. Students will also receive training for certification in Hazardous Materials Awareness & Operations and National Incident Management System (NIMS 100, 200, & 700). Clinical observations on local ambulance services occur after class time, and students will need to provide their own transportation to these locations. A class uniform will be required. This course is both a physical and knowledge demanding course and students will participate in active physical training. Successful completion of all requirements allows the student to be eligible to take the National Registry of EMT practical and written examinations. **The student must be 18 years of age to take the examinations.**

Networking and Cybersecurity

Grade: 11-12

Credit: 1.5

In this class, students receive instruction and lab assignments focused on introductory concepts in cybersecurity. These concepts include cybersecurity theory and basic techniques for optimizing security on personal computers and small networks. Explores mechanisms for protecting networks against attacks. Emphasizes network security applications that are used on the Internet and for corporate networks. Investigates various networking security standards and studies methods for enforcing and enhancing those standards.

Integrated Curriculum (Math and English)

Grade: 11-12

Credit: 0.5

Integrated Curriculum english and math courses (English IV and Math IV) are specifically designed to incorporate real world communication arts and mathematics skills into a corresponding 3-hour block class to prepare students for post-secondary training, college, and their careers. These courses are taught strictly by secondary certified english and math instructors. Students will receive 0.25 credit of math and 0.25 credit of english for every semester enrolled at the Cass Career Center.