

# **Drexel R-IV School District**



## **2018-2019**

### **Course Descriptions and Career Planning Guide**

**Drexel High School  
207 S. 4th St.  
Drexel, MO 64742  
816-619-2287  
<http://www.drexel.k12.mo.us/>**

## **Drexel R-IV School District Mission Statement**

It is the mission of the Drexel Public Schools to recognize its students as special, unique individuals, to provide them 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 student 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:

<b><u>Drexel RIV Graduation Requirements</u></b>		
<b>Curricular Areas</b>	<b>Graduation</b>	<b>Graduation w/ Post-Secondary Plans (Recmd)</b>
English Language Arts	4 Units	4 Units
Mathematics	3 Units	4 Units
Science	3 Units	4 Units
Social Studies	3 Units (Govt Req)	4 Units (Govt Req)
Fine Arts	1 Unit	1 Unit
Practical Arts	1 Unit	1 Unit
Physical Education	1 Unit	1 Unit
Health Education	0.5 Unit	0.5 Unit
Personal Finance	0.5 Unit	0.5 Unit
Electives	7 Units	7 Units
Additional Electives (College Prep):		2 Unit of Foreign Language 0.5 Computer Applications
<b>Total:</b>	<b>24 Units</b>	

## **Courses Offered at Drexel High School**

<b>Content Area</b>	<b>Course</b>	<b>Credit</b>
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 Communications and Leadership	0.5
	Greenhouse Management	1
	Food Science	0.5
	Agriculture Structures	1
	Agriculture Construction	1
	Advanced Crop Science	1
Art	Art I	1
	Art II/Art III/Art 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
	Business Math	1
	Personal Finance	0.5
	Management	1
	IT Essentials	1
English Language Arts	English I	1
	English II	1
	English III	1
	College Prep english	1
	Creative Writing	1
	D/C English	1
FACS	Foods & Nutrition	0.5
	World Foods	0.5
	Child Development I	0.5
	Child Development II	0.5
	Clothing I	0.5

	Clothing II	0.5
	Parenting	0.5
	Housing	0.5
Math	Pre-Algebra	1
	Algebra I	1
	Algebra II	1
	Functional Algebra	1
	Geometry	1
	Probability/Statistics	0.5
	Trigonometry	0.5
	College Algebra - Pre-Calculus	1
	Calculus	1
Health	HS Health	0.5
Music	HS Band	1
	HS Choir	1
Physical Education	HS Physical Education	1
	Strength and Conditioning	1
Science	Anatomy/Physiology	1
	Physical Science	1
	Earth Science	1
	Physics	1
	Chemistry	1
	Biology	1
	Zoology	0.5
	Botany	0.5
	Environmental Science I	1
Social Studies	World History	1
	American History	1
	Government	0.5
	Sociology	0.5
	Psychology	0.5
	Geography	0.5
	History of Sports	0.5
	Current Issues	0.5
	Missouri History	0.5
Additional Electives/Opportunities	Yearbook	1
	Library Science	1

## **A+ Scholarship Program**

This section of the Course Description manual will provide a brief overview of the A+ Scholarship Program. Please contact the A+ Coordinator, Kenny Shipps, if you have additional questions.

### **What is the A+ Program?**

In an effort to enhance educational opportunities for high school students, the Missouri State Legislature established The Outstanding Schools Act (OSA) of 1993, which included the provisions of the A+ School Program. The Legislature approved the program to help students qualify for post secondary tuition assistance. The goals of the A+ Program are listed below:

- All students will graduate from high school.
- All students will complete a selection of high school studies that is challenging and for which there are identified learning experiences.
- All students will proceed from high school to a college, post secondary vocational or technical school or a high wage job with workplace skill development opportunity.

***Students who graduate from an A+ School and have met the specified requirements will be eligible to receive two-year tuition to any public community college, vocational, or technical school in Missouri provided that state funding resources are available.***

### **Who is Eligible?**

To be eligible for the financial incentives of the A+ Scholarship Program, a student must be certified an A+ student by the Drexel High School. To qualify, the student must meet the following criteria:

- 1) Be a U.S. citizen or permanent resident.
- 2) Enter into a written agreement with your high school prior to graduation.
- 3) Attend a designated A+ High School for 3 consecutive years immediately prior to graduation.
- 4) Graduate with an overall GPA of 2.5 or higher on a 4.0 scale.
- 5) Have at least a 95% attendance record overall for grades 9-12.
- 6) Perform at least 50 hours of unpaid tutoring or mentoring of which up to 25% of may include job shadowing.
- 7) Maintain a record of good citizenship and avoid the unlawful use of drugs and/or alcohol.
- 8) Achieved a score of proficient or advanced on the Algebra I EOC or a higher level DESE approved EOC exam in the field of Mathematics.

### **What are the benefits?**

- Paid tuition to attend a public community/technical college or vocational training (pending state funding).
- Opportunity to learn about jobs at the place of business and the classroom.
- Tutoring and mentoring experience.
- Career pathways to prepare for an occupation, with additional training upon graduation.
- Encouragement to attend school regularly.

### **What if I want to attend a 4-year college?**

By signing up you are saying that you want to strive to accomplish the goals established by the A+ Program. The A+ Program will allow a student to attend a 2-year college and earn an associate's degree, which will transfer to a 4-year college. Many Missouri institutions are now offering a comparable A+ scholarship for those students interested. You must check with your specific institution.

**To Enroll: Complete an agreement form and return it to the A+ Coordinator.**

## Dual Credit Program

Juniors and seniors may be eligible to enroll in ITV and/or On-Line credit classes. Drexel R-IV has a dual-credit agreement with the University of Central Missouri for students to obtain both college and high school credit. However, the Drexel R-IV School District does not set the criteria for students to be eligible for dual credit. The website for UCM is [www.ucmo.edu/dualcredit/](http://www.ucmo.edu/dualcredit/).

Eligibility for Dual Credit Courses is defined as:

- Minimum cumulative GPA of 3.0 or higher
- Satisfactory scores of subject matter tests and/or ACT (see UCM website link above).
- Recommendation of the high school counselor and/or principal.

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

### **The following courses are available for dual/college credit online:**

<b>Fall 2018</b>	<b>Spring 2019</b>
ART 1800	ART 1800
CHEM 1103	CHEM 1103
CJ 1000	
COMM 1000	COMM 1000
CTE 1210	CTE 1210
ENGL 1020	ENGL 1020
	ENGL 1030
FIN 1820	FIN 1820
HIST 1350	
	HIST 1351
	HIST 1420
	LIS 1600
MUS 1210	MUS 1210
	NUR 2000
PHYS 1103	PHYS 1103
POLS 1500	POLS 1500
POLS 1510	POLS 1510
PSY 1100	PSY 1100

SOC 1800	SOC 1800
SPAN 1601	SPAN 1601
	SPAN 1602

### **Work Study Program**

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 21 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 Spring 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 packet with Mrs. Oram prior to Spring Semester of Junior Year.**

## **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. You can access the Missouri Connections website at the following link: <https://mocis.intocareers.org/materials/portal/home.html>.

### **PSAT Test (10th and/or 11th Grade)**

The PsAT is an option test for sophomores and juniors. Sophomores can use the test to score to qualify for the Missouri Scholars Academy. The PSAT is the only qualifying test for juniors competing for the National Merit Scholarship Program. The PSAT measures critical thinking skills, including critical reading math problem-solving, and writing skills. The individualized score report includes personalized feedback on skills that need attention, along with suggestions for improvement.

### **ASVAB Test (10th Grade)**

The ASVAB is not just 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 - Optional)**

The ACT is a national college admissions examination that consists of subject area assessments in: English, math, reading, and science. All juniors will take a practice ACT test in December. They will also take the actual ACT exam 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

#### **ACT Test Dates for 2018-2019 School Year (National Test dates; not subject to be offered at Drexel RIV)**

September 8, 2018
October 27, 2018
December 8, 2018
February 9, 2019
April 13, 2019
June 8, 2019



# English Language

## Arts

**English I**

Grade: 9

Credit: 1.0

This course will build a solid foundation of knowledge, skills and strategies. 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: 9-12

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.

**English III**

Grade: 11-12

Credit: 1.0

**Prerequisite:** English I and II

Studying advanced topics in grammar, vocabulary and composition; composing an in-depth informative research paper and several other essays to begin to understand the standards that will be expected in the world of work; studying different genres in American literature; discussing the works read in a critical, analytical, and contextual manner; and developing creative, critical, and analytical thinking skills. Students will create and present various projects throughout the year including a School to Career project which involves an actual interview and a day of job shadowing.

**Creative Writing:**

Grade: 11-12

Credit 1.0

**Prerequisite:** English 1 and II

Intensive writing course offering practice in several forms (fiction, poetry, first-person narrative, and drama) enabling students to discover their own voice. We will focus on the basics of writing creatively: storytelling, image, rhythm, sound, metaphor, and character. The end result will be a portfolio of the students' best works.

**College Prep English**

Grade: 12

Credit: 1.0

**Prerequisite:** English I, II and III

College Prep English is a course designed to prepare students for English at the college 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 year.

**Mass Media**

Grade: 11, 12

Mass media is technology intended to reach a mass audience. This course will study mass media organizations such as newspaper, radio, and television. It will look at the history, technology, trends, law, and ethics behind such organizations. The course will include book work, exams, projects, writings, and research. Field trips are possible to newspaper, radio, and television studios. It is an independent study course; students will be responsible to work on their own for much of the course.

# **Mathematics**

**Calculus**

Grade: 12

Credit: 1.0

**Prerequisite:** Pre-Calculus and Trigonometry

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.

**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. The content covered during this class corresponds very closely to College Algebra. Students with a strong math background generally enroll in this class the same time that they are taking Trigonometry. In addition to course content, Pre-Calculus will address skills necessary to the students' success on the various college entrance exams such as the ACT. This course potentially could be taken for dual credit if certain requirements are met.

**Probability and Statistics:**

Grade: 11-12

Credit: .5

This course is a non-rigorous mathematical examination of elementary probability and statistics. Math skills through Algebra II will be sufficient to allow a student to have success. 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: .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 these 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.

**Pre-Algebra**

Grade: 9

Credit: 1.0

This course reviews topics covered in 8<sup>th</sup> grade. Additional area to be covered include classifying real numbers, order of operations, real number operations, rules and applications with square root and exponent, simplifying and evaluating expressions, solving equations and inequalities, linear graphing, and probability.

**Algebra I**

Grade: 9-12

**Prerequisite:** Saxon Course 3 in 8<sup>th</sup> Grade or Pre-Algebra in 9<sup>th</sup> Grade

Credit: 1.0

This course will offer a review of topics covered in 8<sup>th</sup> Grade or Pre-Algebra. Additional areas to be covered include exponents, set notation, inequalities, solving multi-variable equations, factoring polynomials, linear graphing and probability. All students will take this course either as a one or two year program.

**Functional Algebra**

Grade 11-12

Prerequisite: Algebra I

Credit 1.0

This course will offer a review of topics covered in Pre-Algebra, Algebra 1, and some Algebra 2. Areas to be covered include fractions, sets of real numbers, linear equations and inequalities, systems of equations, polynomials, properties of exponents, rational expressions, relations and functions, exponential and logarithmic functions, radicals, and complex numbers. Students planning to attend college or technical school for majors other than Mathematics and Science should take this class as a review for College Algebra.

**Geometry**

Grade: 11-12

Credit: 1.0

**Prerequisite:** 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, trigonometry, and probability type problems.

**Algebra II**

Grade: 10-12

Credit: 1.0

**Prerequisite:** Algebra I

This course is a transition between Algebra I and College Algebra. Some time will be spent reviewing topics from Algebra I, but new topics will be introduced very quickly in the year. Topics covered will include: exponent rules, matrices and determinants, polynomials, graphing linear and quadratic functions, trig 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.

# **Science**

**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.

**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.

**Environmental Science**

Grade: 10-12

Credit: 1.0

**Prerequisite:** Physical Science

Earth Science is a two-semester elective science open to grades 10 -12.

The purpose of this course is to further expose students to matter, atoms, and elements; the formation and composition of rocks and minerals; landforms; weathering and erosional forces; Earth's internal processes; volcanoes; plate tectonics; atmosphere; weather; climate; human impact on the environment; Earth's place in space; and astronomy.

**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.

**Botany**

Grades: 11-12

Credit 0.5

**Prerequisite:** Biology

Botany will be a review of the plant kingdom. Anatomy and physiology of plants will be a large section of this course. Microscope work will also be an important area of concentration. Evolutionary biology and classification of plants from moss and ferns to Sequoias would be part of the investigation. Plant collection will be a large part of our hands-on activities. This part of the country is a great place to study both temperate forest and grassland areas.

**Chemistry**

Grade: 11-12

Credit: 1.0

**Prerequisite for College Chemistry:** Algebra I

Chemistry is the study of the composition of substances and the changes these substances undergo. The student will begin the year by examining the basic building block, the atom. Time will be spent examining how the interactions of these atoms create the many elements, compounds and mixtures. Through hands-on activities, videos, worksheets, quizzes, and tests the student will explore the chemicals that make up the world around them.

**Physics**

Grade: 11-12

**Prerequisites:** Physical Science

Credit: 1.0

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.

**Zoology**

Grades: 11-12

Prerequisite: Biology

Credit 0.5

Zoology will be a comprehensive study of the animal kingdom, from microscopic life forms through giant extinct creatures such as Apatosaurus. The concept of form follows function will be emphasized and as many hands-on activities as possible will be included in the classroom and lab work. Anatomy, physiology, evolutionary history, classification and embryology of various organisms will be investigated.



# **Social Sciences**

**World History From 1500**

Grade: 09

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 period Reconstruction through the late 20th century. This course includes a historical overview of political, military, scientific, economic, and social developments.

**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 0.5

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 it's 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

**Current Issues**

Grade: 10-12

Credit: 0.5

Current Issues is a course that revolves around current events of the United States and World. Students will apply objectives from Government and Modern American History to things that are happening in the United States and the World. This course is especially interesting during election years. Students will analyze candidates through their own research and put together a newsletter about the issues of the campaign. They will stay well informed about the day to day happenings of the candidates. This is an internet based class, so research and writing skills will also be sharpened.

**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.

**Missouri History**

Grade: 9

Credit: .5

This course is designed to give students knowledge of Missouri’s history, its problems, and the causes and effects of events in our development as a state. Areas of study include the state constitution, evolution of social and economic growth, Missouri’s place in the historical development of our nation, and a pride in our accomplishments. It is important for students to realize the heritage and development of their state. This course is designed to give students knowledge of Missouri’s growth and development as a state. An appreciation for events shaping the state may lead to a lifetime learning process dealing with Missouri history. A minimum passing score of 60% is required by the State of Missouri on the Missouri Constitution as a prerequisite for graduation.

# **Practical Arts**

# Agriculture

**Note: All Ag classes require FFA membership**

## **Ag Science I — Animal Sciences**

Grades: 9-10

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**

Grades 10 – 12

**Prerequisite: Ag Science I**

Credit 1.0

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.

## **Conservation of Natural Resources**

Grades: 11-12

**Prerequisite:** Agriculture Science I or teacher approval.

Credit: 0.5

A course that prepares students for activities in the conservation and/or improvement of natural resources such as oil, water, air, forest, fish, and wildlife for economic and recreational purposes. Units of instruction will include management in: natural resources, habitats, soils, grasslands, streams and ponds, fish, forestry and wildlife. Students will be required to develop a comprehensive conservation plan for habitat management or recreational use.

## **Agribusiness Management — Economics and Sales**

Grades: 11-12

**Prerequisite:** Agriculture Science I or concurrent enrollment.

Credit 1.0

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.

## **Communications and Leadership**

**Prerequisite:** Ag Science I or teacher approval

Credit 1.0

Provides for the in-depth study and development of skills in leadership, citizenship and communications necessary to participate in agricultural and community organizations and to becoming contributing members of society. Emphasizes communications and speaking skills, leadership qualities, democratic processes, problem solving and decision making, leadership styles, goal setting, self concepts, small and large group dynamics, school-to-work transition skills and personal financial management. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

## **Food Science**

**Prerequisites:** Ag Science I

0.5 Credit

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 Structures**

**Prerequisites:** Agriculture Science I and II. Students must be juniors or seniors. 1.0 Credit

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.

### **Agricultural Construction**

**Prerequisites:** Agriculture Science I and II. Students must be juniors or seniors. 1.0 Credit

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.

### **Greenhouse Management**

**Prerequisites:** Agriculture Science I and II. Students must be juniors or seniors. 1.0 Credit

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**

**Prerequisites:** Agriculture Science I and II. Students must be juniors or seniors. 0.5 Credit

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: 11-12

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 I and II

Advanced Accounting will continue the basic concepts/aspects taught and learned by students in Accounting I & II for a business organized as a proprietorship, partnership, 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: 9-12

Credit 1.0

Course Description: 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: 9-10

Credit: 0.5

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.

**Computer Applications II**

Grade: 10-12

**Prerequisite:** Computer Applications I

Credit: 0.5

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, PowerPoint and Access.

**Introduction to Business**

Grade: 9-12

Credit: 0.5

The goal of this class is to help students develop critical & creative thinking skills in relation to issues in the world of business & 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

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 a 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 1.0

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. After completion of this course you will be prepared for the Industry Certification: CompTIA A+

**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 & Nutrition**

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**

Grades: 10-12

**Prerequisites:** Foods & Nutrition

Credit: 0.5

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.

**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 10-12

**Prerequisites:** Clothing I

Credit: 0.5

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**

Grade: 10-12

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**

Grade: 11-12

**Prerequisites:** Child Development I

Credit: 0.5

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**

Grade: 10-12

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**

Grade: 10-12

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.

# **Fine Arts**

## Art

### Art I

Grade: 9-10

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. Successful completion of this course with a B or better allows students to continue their studies in Art II.

### Art II-IV

Grade: 10-12

**Prerequisite:** Art I

Credit 1.0

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: 9-12

Credit: 1.0

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.*

### Concert Band

Grade: 7-12

Prerequisite: Elementary Band

Credit: 1.0

7th-12th grade 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/Health** **Education**

# 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: .5 or 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: .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

### Yearbook

Grade: 10-12

Credit: 1.0

This class enables creative, production-oriented students to develop skills in page design, photographic composition, and magazine journalism. Students will master desktop publishing using Walsworth's Photoshop to produce Drexel's yearbook, The Echo. In addition, students will gain experience in marketing and salesmanship of advertising space and will develop a level of professionalism appropriate to a business relationship with the community.

**Photography for the Yearbook:** Yearbook students are expected to complete and follow through on photo commitments so that all of the various events during the school year are covered. In addition, students should always be looking for photo opportunities. Over the course of the year, they will polish their skills as photographers and develop a creative eye.

### Library Science

Grade: 9-12

**Prerequisites:** Computer Applications I and a good attendance record

Credit: .5 or 1.0

As a library assistant a high school student will become acquainted with the day-to-day operation of a library media center. Course content includes such things as organization of the media center, use of audio visual equipment and computers, materials processing, 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.

## A+ Program

### A+ Schools Program (Tutoring/Mentoring)

.5 or 1.0 credit

Grades 10 – 12

**Prerequisite:** 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.

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