

Pratt High School Course Catalog

Pratt High School's course catalog is designed to show you how courses relate to many careers that are available in Kansas. The foundational skills required for each cluster include a variety of both academic and career-centered courses. For each Career Cluster, there is a specific pathway that students should complete. Each pathway is broken down into Introduction, Technical, and Application courses required for completion of the pathway.

All academic offerings are listed in the front of the catalog. Please note the connection between academic offerings and career clusters with which they are associated. Unless otherwise noted, all courses are .5 credit. (If annotated as an A and B, the course is .5 credit but both will generally be taken together in one school year for a whole credit based on Graduation Requirements)

Graduation Requirements

Students will be certified for graduation from Pratt High School upon completion of the following requirements: With a 7 period schedule a student can earn as many as 28 credits over the course of four years (7 per year). All students need to earn 24 credits, including the required credit components in order to graduate from Pratt High School.

Academic Requirements for Graduation from Pratt High School

(4) Units of English Language Arts

(3) Units of Mathematics.

(3) Units of Science.

(3) Units of Social Science in the following areas:

- (1) unit of American History
- (.5) unit of American Government
- (.5) unit of World History
- (.5) of Economics
- (.5) of Geography

(1) Unit of Physical Education/Health

(.5) Unit of Computer Studies

- (.5) Drafting
- (.5) Graphic Design
- (.5) Freshmen Transitions

(1) Fine Arts credit from the following list:

1. Any Art Course
2. Any Music or Band Course
3. Forensics
4. CAD / Engineering Graphics

(8.5) elective credits.

ENGLISH LANGUAGE ARTS

Pre-AP English 1 (01101)

Grade 9

1 Credit

develop their writing skills in a variety of essays, begin to learn the techniques of writing research papers, and create a variety of response journals. Various group and individual projects will be required using all forms of technology available.

Composition (01103)

Grade 12

.5 Credit

English/Composition course designed for seniors to build upon previous writing skills. Reinforcing the logic and critical-thinking skills that accompany good writing, these courses—which emphasize word choice, usage, and writing mechanics—provide continued and advanced instruction in writing for a variety of purposes and audiences. English/Composition courses may emphasize college or business preparation; literature study may be offered as an additional component in which students analyze examples of several genres.

College Bound Comp I (01102)

Grade 11-12

.5 Credit

English/Composition courses are designed for juniors and/or seniors and build upon previous writing skills. Reinforcing the logic and critical-thinking skills that accompany good writing, these courses—which emphasize word choice, usage, and writing mechanics—provide continued and advanced instruction in writing for a variety of purposes and audiences. English/Composition (juniors and seniors) courses may emphasize college or business preparation; literature study may be offered as an additional component in which students analyze examples of several genres. **This course may be taken for dual credit through PCC. Most colleges in the U.S. require Comp I, but check your preferred college.**

College Bound Comp II (01102)

Grade 11-12

.5 Credit

English/Composition (juniors and seniors) courses are designed for juniors and/or seniors and build upon previous writing skills. Reinforcing the logic and critical-thinking skills that accompany good writing, these courses—which emphasize word choice, usage, and writing mechanics—provide continued and advanced instruction in writing for a variety of purposes and audiences. English/Composition (juniors and seniors) courses may emphasize college or business preparation; literature study may be offered as an additional component in which students analyze examples of several genres. **This course may be taken for dual credit through PCC. Most colleges in the U.S. require Comp I, but check your preferred college.**

Mythology (01053)

Grade 11-12

.5 Credit

Literature courses offer the opportunity for students to study and reflect upon the themes presented in the body of literature being presented. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the reading selection and as they understand how the work reflects society's problems and culture. Oral discussion is an integral part of literature courses, and written compositions are often required. Literature courses may survey representative works, reflect a particular genre or a specific theme, or survey works of a particular time or people.

Short Stories (01061)

Grade 11-12

.5 Credit

This course has the same aim as general literature courses (to improve students' language arts and critical-thinking skills), focusing on one or several genres, such as poetry, essay, biography, short story, drama, and so on. Students determine the underlying assumptions and values within the selected works and also examine the structure, techniques, and intentions of the genre being studied. Oral discussion is an integral part of these genre-oriented courses, and written compositions are often required.

Literature of a Genre (01061)**Grade 10-12****.5 Credit**

This course is a survey of a limitless variety of literary genres. This independent reading course is designed to acquaint students with a variety of literature genres and to provide a setting that allows students to discover the joy of reading. Reading comprehension, analytical skills, and critical thinking skills will all be developed and practiced during the course of this semester.

English Pathways to Graduation			
Work	Tech School / Community College	University	
English I	English I	English I	Pre-AP English I
English II	English II	English II	Pre-AP English II
English III	English III	English III	AP Language and Comp
Composition + 1 Literature Course	Comp + 1 Literature Course or College Bound Comp I	College Bound Comp I & College Bound Comp II	AP Literature and Comp or College Bound Comp II + Public Speaking

MATHEMATICS

Applied Algebra 1 (A and B) (02053/02054)

Grade 9 - 10

1 Credit

Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials.

Applied Geometry(A and B) (21006)

Grade 10-11

1 Credit

Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; surface area and volume, all the while using real-life applications; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

Applied Algebra II / (A & B) (21007)

Grade 11 - 12

1 Credit

Transition Algebra courses review and extend algebra and geometry concepts for students who have already taken Algebra I and Geometry. Transition Algebra courses include a review of such topics as properties and operations of real numbers; evaluation of rational algebraic expressions; solutions and graphs of first degree equations and inequalities; translation of word problems into equations; operations with and factoring of polynomials; simple quadratics; properties of plane and solid figures; rules of congruence and similarity; coordinate geometry including lines, segments, and circles in the coordinate plane; and angle measurement in triangles including trigonometric ratios.

Intermediate Algebra (A and B)

Grade 10 - 11

1 Credit

Intermediate Algebra reviews and extends algebra concepts for students who have already taken Applied Algebra I. Intermediate Algebra reviews topics as properties and operations of the real number system; solving and graphing first degree equations and inequalities; translating word problems into equations; Intermediate Algebra will also introduce concepts such as operations with and factoring of polynomials and; solving systems of linear equations.

Algebra I (A and B) (02052)

Grade 9 - 10

1 Credit

Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; solving systems of linear equations; simplifying and solving radical equations; graphing and solving simple quadratic equations.

Geometry (A and B) (02072)

Grade 9-10

1 Credit

Prerequisite: Algebra 1 or equivalent (graphing calculator required)

Geometry is a middle level mathematics class. The study of geometry will include properties, definitions, relationships, and theorems of angles, polygons, quadrilaterals, and circles. Deductive proofs will be stressed. Applications of the geometric principles to real-life situations will be included.

Algebra II (A and B) (02056)

Grade 10 -12

1 Credit

Algebra II course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents.

Algebra III (A and B) (02057)

Grade 11-12

1 Credit

Algebra III courses review and extend algebraic concepts for students who have already taken Algebra II. Course topics include (but are not limited to) operations with rational and irrational expressions, factoring of rational expressions, linear equations and inequalities, quadratic equations, solving systems of linear and quadratic equations, properties of higher degree equations, and operations with rational and irrational exponents. The courses may introduce topics in discrete math, elementary probability and statistics; matrices and determinants; and sequences and series.

Pre-Calculus (A and B) (02110)**Grade 11-12****1 Credit**

This course is designed to give a comprehensive study of functions. Specific emphasis will be placed on polynomial, rational, inverse, exponential, logarithmic and trigonometric functions. An in-depth understanding of these topics is especially important for students intending to study calculus, physics, and other sciences, and/or engineering in college. In addition to the study of functions, students will also be introduced to topics in probability and statistics. The course will conclude with the study of limits and a preview of Calculus.

AP Calculus (A and B) (02124)**Grade 11 -12****1 Credit**

Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of precalculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis). **Students who complete this course will take the National AP Exam given by the college board with the opportunity to earn college credit.**

College Algebra (02057)**Grade 11 -12****.5 Credit**

This course reviews and extends algebraic concepts for students who have already taken Algebra II. Course topics include (but are not limited to) operations with rational and irrational expressions, factoring of rational expressions, linear equations and inequalities, quadratic equations, solving systems of linear and quadratic equations, properties of higher degree equations, and operations with rational and irrational exponents. The courses may introduce topics in discrete math, elementary probability and statistics; matrices and determinants; and sequences and series. **This course may be taken for dual credit through PCC. Math 178 College Algebra**

Statistics (02201)**Grade 11-12****.5 Credit**

Probability and Statistics courses introduce the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability. **This course may be taken for dual credit through PCC. Math 181 Elementary Statistics**

Math Pathways to Graduation			
Work	Tech School / Community College	University	
Applied Algebra	Applied Algebra	Algebra I	Geometry
Intermediate Algebra	Intermediate Algebra	Geometry	Algebra II
Applied Geometry	Applied Geometry	Algebra II	Pre-Calculus
Consumer Math	Applied Algebra II	College Algebra / Statistics	AP Calculus

SCIENCES

Earth Science (03001)

Grade 9 - 10

1 Credit

Earth Science offers insight into the structure and function of the physical earth and the earth's place in the universe. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography.

Physical Science (03159)

Grade 9-10

1 Credit

Physical Science will involve the study of the applied structures and states of matter within our designed world. It will include such topics as forms of mechanical forces, thermodynamics, electromagnetism, and fluid dynamics.

Biology (03051)

Grade 9 - 10

1 Credit

Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

Principles of Biomedical Science (14251)

Grade 9-10

1 credit

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Human Body Systems (14102) Grades

Grades 10-12

1 Credit

Prerequisites: Biology or Principles of Biomedical Science

In Human Body Systems, students engage in the study of the processes, structures, and interactions of the human body. Important concepts in the course include: communication, transport of substances, locomotion, metabolic processes, defense, and protection. The central theme is how the body systems work together to maintain homeostasis and good health. The systems are studied as "parts of a whole," working together to keep the amazing human machine functioning at an optimal level. Students design experiments, investigate the structures and functions of body systems, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Students work through interesting real-world cases and play the role of biomedical professionals to solve medical mysteries. At the completion of this course, students take the PLTW end-of-course assessment.

Chemistry (03101)

Grades 10 - 12

1 Credit

Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

Physics (03151)

Grades 11 - 12

1 Credit

Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

Environmental Science (03003)

Grades 11-12

1 Credit

Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

Zoology (03061)**Grades 11-12****.5 Credit**

Zoology is the study of all things considered animals. Students will learn about how different groups evolved, how groups of animals are classified, and finally most of the major groups of animals, their anatomy, and how to identify their different species or groups. This class will be broken up into two distinct parts, lecture and lab. During lecture students will be taught about the unique characteristics and evolutionary pathways of different groups, and in the lab learn how to identify and differentiate different native Kansas species.

Particular Topics In Biology (03063)**Grades 11-12****.5 Credit**

Field Ecology - Ecology is the study of interactions between all living things and their environment. In the Field Ecology course, a focus will be placed on observing relationships between living things in the wild and in the field. Students will learn survey methods for a large variety of different major groups of living organisms. Over the course of the whole semester, students will be working on and conducting their own research project, exploring an ecological concept.

Bioengineering (BioE) (21020)**Grade 11-12****1 Credit**

Prerequisites: 2 other science classes.

BioE is a rigorous activity, project, and problem-based course in which students investigate and design solutions to solve real world challenges related to world food security, renewable energy, and clean drinking water. Students completing BioE will develop an understanding of the scientific and technological foundations for each of the problems. Students apply their knowledge and skills as they use an engineering design process to design and test solutions that help solve these global challenges.

**** Animal Science and Plant Soil Science count as a high school graduation science credit. They do have prerequisites so be sure to account for that if you are planning to substitute one of those courses into your graduation plan.

Science Pathways to Graduation			
Work	Tech School / Community College	University	
Earth Science or Physical Science	Earth Science or Physical Science	Earth Science or Physical Science	Biology
Biology	Biology	Biology	Chemistry
Environmental Science	Environmental Science	Chemistry	Physics
		Physics	

Blomedical Pathway		
Introductory Level	Technical Level	Application Level
Biology	Principles of Biomedical Science	BioEngineering
Chemistry	Human Body Systems	

SOCIAL SCIENCES

World Geography (04001)

Grade 9

.5 Credit

World Geography courses provide students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

World History (04063)

Grade 10

.5 Credit

Western Civilization courses apply an interdisciplinary approach to the study of western cultural traditions, frequently using a chronological framework. Course content typically includes a survey of the major developments in and contributors to art and architecture, literature, religion and philosophy, and culture. These courses may also cover intellectual and political movements.

Economics (04201)

Grade 10

.5 Credit

Economics courses provide students with an overview of economics with primary emphasis on the principles of microeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both.

US History (04103)

Grade 11

1 Credit

Modern U.S. History courses examine the history of the United States from the Civil War or Reconstruction era (some courses begin at a later period) through the present time. These courses typically include a historical review of political, military, scientific, and social developments.

Government (04151)

Grade 12

.5 Credit

U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

Dual Credit Government (04159)

Grade 12

1 Credit

Dual Credit Government is a survey of the structure, function, and processes of American national government and the American political system. Specific topics include: the constitution and its interpretations; the branches of government, their functions and their development; and American political behavior as it affects national government. Students will be able to gain 3 credit hours from Pratt Community College if they pass the course at the end of the school year. **POS176 American Government**

Psychology (04254)

Grade 9 - 12

.5 Credit

Psychology courses introduce students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

Sociology (04258)

Grade 9 - 12

.5 Credit

Sociology courses introduce students to the study of human behavior in society. These courses provide an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

World War II 1918-1948 (04065)

Grade 11-12

.5 Credit

The purpose of this course is to provide the students with a broad view and comprehensive understanding of World War II as a global event. It will deal with the war's causes, conduct, and consequences. It will cover the war from the perspective of all the major belligerents, Axis and Allied.

Contemporary World Issues (04064)**Grade 9-12****.5 Credit**

The purpose of this course is to provide the students with a broad view and comprehensive understanding of local, regional, national, and world events and how these events impact the world around us. This is a semester-long class that includes reading and understanding news, class discussions, researching, and creating projects based on the current issues we study in class.

Social Science Pathways to Graduation			
Work	Tech School / Community College	University	
World Geography	World Geography	World Geography	World Geography
Economics / World History	Economics / World History	Economics / World History	Economics / World History
US History	US History	US History	US History
Government	Government	Government	Dual Credit Government

ARTS AND PERFORMING ARTS

Creative Arts

Fundamentals of Art (05154)

Grade 9-11

1 Credit

Creative Art—Comprehensive courses provide students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles.

Art 1 (A and/or B) (05154)

Grade 10 - 12

1 Credit

Creative Art—Comprehensive courses provide students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles.

Art 2 (A and/or B) (05155)

Grade 10 - 12

1 Credit

Creative Art—Students continue with the knowledge previously learned in Fundamentals and Art 1, the attention is on two-dimensional and 3 dimensional work, students typically work with several media (such as pen-and-ink, pencil, chalk, watercolor, acrylics, clay, recycled items and so on), but some courses may focus on only one medium.

ADV Art Projects (A and/orB) (05170)

Grade 11 - 12

1 Credit

Art Portfolio courses offer students the opportunity to create a professional body of work that reflects their personal style and talent. Students are often encouraged to display their work publicly.

Performing Arts

Drama / Speech (05055)

Grade 9- 12

.5 Credit

Drama/Speech is a course designed to strengthen acting and speaking skills in performance. It is an advanced class for students who have taken some sort of basic communication, acting, or forensics course earlier. Students will work on several individual projects throughout the semester chosen from the following: serious duet acting, comedic duet acting, serious solo acting, comedic solo acting, persuasive speaking, informative speaking, storytelling, and/or one-acts. For the drama portion, students will work on analyzing scenes, creating characters, advancing their performance skills, and motivating action. For the speech portion, students will work on targeting an audience, selecting strong support, organizing the speech, and strengthening delivery skills. Students may also engage in a one-act or a video production of some kind. **A student must have the teacher's permission to be enrolled.**

Forensics (01152)

Grade 9 - 12

.5 Credit

Forensics courses (competitive speech and drama) offer students the opportunity to learn how to use speaking and acting skills effectively in formal and informal situations. **The primary purpose of this course is to develop confidence in communication situations - a needed skill for college and career.** Students learn such skills as logic and reasoning, the organization of thought and supporting materials, and effective presentation of one's voice and body. Linked to an extracurricular program, this course (which can be taken multiple times) introduces students to numerous public speaking situations, acting situations, and literature interpretation of poetry and stories. Students learn the methods, aims, and styles of a variety of events (acting, speaking, or reading events for competition). Participation in competition is required.

Communications (01155) **Grade 11 - 12** **.5 Credit**
This course meets the college requirement at Kansas universities for speaking and communication classes. It offers students study and practice of effective spoken communication skills including interpersonal relationships, group dynamics, and public speaking. Areas emphasized are verbal and nonverbal communication, critical thinking, speaking skills, and group cooperation. Students will have the opportunity to develop practical communication skills for their daily lives. **This course may be taken for dual credit through PCC. Most colleges in the U.S. require Communication or Public Speaking, but check your preferred college. COM131 Speech Communication**

Robed Choir (05110) **Grade 9 - 12** **1 Credit**
Chorus courses provide the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.

Pratt High Chamber Singers (05111) **Grade 9-12** **1 Credit**
This course will be an auditioned ensemble of no more than forty members. This group will focus on developing collegiate level skills by learning advanced choral techniques through individual singing and collegiate level repertoire.

Concert Band (A and/or B) (05101) **Grade 9 - 12** **.5 Credit**
General Band courses develop students' technique for playing brass, woodwind, and percussion instruments and cover a variety of non-specified band literature styles (concert, marching, orchestral, and modern styles).

Marching Band (05103) **Grade 9 - 12** **.5 Credit**
Courses in Marching Band are intended to develop students' technique for playing brass, woodwind, and percussion instruments and cover appropriate band literature styles, primarily for marching performances.

Jazz Band (05102) **Grade 9 - 12** **.5 Credit**
Courses in Concert Band are designed to promote students' technique for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert performances.

FOREIGN LANGUAGE

Spanish I (06101) **Grade 9 - 12** **1 Credit**
Designed to introduce students to Spanish language and culture, Spanish I emphasizes basic grammar and vocabulary, needed for students to read, write, speak, and understand the language at a basic level. By the end of the class, students should be able to hold basic conversations in a variety of contexts. Students also learn about Spanish culture to enhance their understanding of the language and its use.

Spanish II (06102) **Grade 9 - 12** **1 Credit**
The Spanish II course builds upon skills developed in Spanish I, extending students ability to understand and express themselves in Spanish and increasing their vocabulary. Students will work toward better ability to use the language and to increase their reading, writing, speaking, and listening skills.

Spanish III (06103) **Grade 9 - 12** **1 credit**
Spanish III courses focus on students expanding their ability to use the language for communication - both oral and written. Goals of the course include increased comprehension of oral and written language as well as improved reading and writing skills. There is added emphasis on reading Hispanic literature and beginning translation work. Some course work can be individualized to desired career.

Spanish IV (06104) **Grade 9 - 12** **1 Credit**
Spanish IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but

Strength and Conditioning (08009)**Grade 9 - 12****1 Credit**

Strength Training courses help students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning.

AGRICULTURE**Introductory Level****Intro to Agriculture****Grade 9-12****1 Credit**

This exploratory course will give students the opportunity to discover the many areas of Agriculture (FFA, Soil Science, Animal Science, Agricultural Welding, Food Science, Meat Science, Horticulture, etc.). An emphasis is given to getting students involved in the FFA chapter and the development of a Supervised Agricultural Experience Program. Students successfully completing this course will understand Agriculture's importance in our world. 1.) Explain the history of the FFA, and identify how the past has led to the current progress and future success of the organization. 2.) Be able to successfully participate in a parliamentary procedure demonstration. 3.) Select and give reasons for livestock. 4.) Safely operate an arc welder and complete basic agricultural mechanics skills.

Technical Level**Animal Science****Grades 10-12****1 Credit**

Prerequisite: Intro to Ag

This course will explore the sciences involved in animal production. Instruction will lead the student through animal systems, reproduction, animal nutrition and health issues. This will be a laboratory course. Students completing this course will: 1.) Explore animal systems and how they differ. 2.) Learn the processes of growth and development in various animals. 3.) Gain knowledge of the reproduction and nutritional needs of animals. 4.) Study animal health issues and occupations. Counts toward science graduation credit.

Plant and Soil Science**Grade 10-12****1 Credit**

Prerequisite: Intro to Ag

Plant and Soil Science course provides a foundation of plant science knowledge and skills. Students will experience various plant science concepts through exciting "hands-on" activities, projects, and problems. The Plant and Soil Science course includes: Soils, Anatomy and Physiology, Taxonomy, Growing Environment, Reproduction, Pest and Disease Management, Crop Production and Marketing, Plant Identification, Agronomy Equipment. Counts toward science graduation credit.

Agricultural Mechanics**Grades 10-12****1 Credit**

Prerequisite: Intro to Ag

Agricultural Mechanics exposes students to mechanics, power, technology, and career options in the world of agriculture. Students participating will experience mechanical and engineering concepts with exciting hands-on activities, with two to three labs per week. Students will acquire the basic skills to operate, repair, engineer, and design agricultural tools and equipment.

The Agricultural Mechanics course includes: Shop Safety, Tool Operation, Material Selection and Uses, Welding, Power Transmission, Concrete, Electricity, Wind Power, Structures/ Fabrication, and Engineering Design Processes.

Ag Welding 1**Grades 9-12****1 Credit**

Prerequisite: none, preferred Intro to Ag

Agriculture Welding will allow students to gain hands on skills that will make them employable in the field of metal fabrication. During this course students will be exposed to arc welding and both a stick and wire welder, cutting with the oxyacetylene torch and plasma torch as well as learning to weld aluminum. If time allows, students will plan and complete a metal project. Students successfully completing this course will: 1) Learn to SMAW weld in a flat and horizontal position. 2) Learn to GMAW weld in a flat and horizontal position. 3) Safely operate an oxy acetylene cutting torch. 4) Develop abilities in operation of a plasma torch. 5) Read a blueprint to construct project

Application Level

Ag Welding 2

Grades 10-12

1 Credit

Prerequisite: Ag Welding I

Agriculture Welding II will allow students to gain hands on skills that will make them employable in the field of metal fabrication. During this course the students will expand on the skills that they learned in Ag Welding I. They will design and complete a small and medium size project based on skills they have developed. Students successfully completing this course will: 1) Identify and explain a welding drawing. 2) Prepare SMAW equipment and materials for V-groove welding. 3) Make horizontal open V-groove GMAW welds. 4) Design basic welding drawings. 5) Build a project from a blueprint design.

Ag Communications and Leadership

Grade 12

1 Credit

Prerequisite: Intro to Ag and 2 other ag classes

Communication plays a vital role in the world of agriculture. This course will be beneficial to students interested in pursuing a career in agriculture communications or journalism, or to those that are interested in building additional communication and leadership skills. In addition, business skills that will be essential for a successful future career will be established. Students completing this course will: 1.) Gain skills in oral and written communication strategies, thinking and writing skills, and public speaking. 2.) Learn about Advertising, Marketing, and Public Relations in the Agriculture Industry. 3.) Explore electronic media, including web page development, desktop publishing, radio production, print communication, and multimedia. 4.) Develop leadership skills through FFA program development.5.) Learn business skills to be successful.

Agriculture Pathways

Comprehensive Agriculture Science Pathway		
Introductory Level	Technical Level	Application Level
Introduction to Agriculture	Animal Science	Agriculture Leadership and Communications
	Plant and Soil Science	
Power, Structural and Technical Systems Pathway		
Introductory Level	Technical Level	Application Level
Introduction to Agriculture	Agriculture Mechanics	Agriculture Welding II
	Agriculture Welding I	

DIGITAL MEDIA

Graphic Design Fundamentals (30102)

Grade 9-12

.5 Credit

Graphic Design Fundamentals provides a basic understanding of the graphic design process. Topics include analyzing the design elements and principles, exploring industry tools, software and equipment and learning composition techniques to develop a quality product.

Graphic Design (05162) **Grades 10-12** **1 Credit**
 Graphic Design / Visual Communications Design courses emphasize applying elements of art and principles of design through the exploration of the purposeful arrangement of images, symbols, and text to communicate a message. These courses may investigate the influence and role of computers in creating these messages. Visual Communications Design courses present a historical and contemporary view of visual communications design and provide instruction in the critique process.

Graphic Design Project Management (31090) **Grades 11-12** **1 Credit**

Digital Photography (11054) **Grade 9 - 12** **.5 Credit**
 Basic Cell phone photo Imaging course that provides students with the opportunity to effectively communicate ideas and information digitally on their cell phones. Topics covered typically include composition, layout, lighting and supplies.

Yearbook (11101) **Grade 10 - 12** **1 Credit**
 Journalism courses (typically associated with the production of a school newspaper, yearbook, or literary magazine) emphasize writing style and technique as well as production values and organization. Journalism courses introduce students to the concepts of newsworthiness and press responsibility; develop students' skills in writing and editing stories, headlines, and captions; and teach students the principles of production design, layout, and printing. Photography and photojournalism skills may be included.

Graphic Design Pathway		
Introductory Level	Technical Level	Application Level
Computer Applications	Graphic Design Fundamentals	Graphic Design Project Management
	Graphic Design	

BUSINESS / FINANCE EDUCATION

Introductory Level

Business Essentials (12050) **Grade 9 - 12** **.5 Credit**
 Students will develop an understanding of how academic skills in Math, written and oral communications are integral components of success in business occupations. Includes a historical review of business globally.

Technical Level

Accounting I (12104) **Grade 10 - 12** **1 Credit**
 Accounting I covers the principles and procedures necessary for college accounting or entry-level employment in the accounting field. The course includes the entire accounting cycle, as well as basic principles, concepts and procedures of accounting needed for both business and personal applications. Some computer assisted accounting will be covered. **Dual Credit through PCC - ACC 111 Introduction to Accounting**

Entrepreneurship (12053)**Grade 9 - 12****.5 Credit**

This course acquaints students with the knowledge and skills necessary to own and operate their own business. Topics from several fields that typically form the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communications.

Consumer and Personal Finance (22210)**Grade 9-12****.5 Credit**

Understanding and managing personal finances are key to one's future financial success. This one-semester course presents essential knowledge and skills to make informed decisions about real world financial issues. 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. They learn that personal finance is 80% behavior and only 20% head knowledge. The purpose of the course is to empower students with knowledge and application of basic financial principles so they can make sound financial decisions for life.

Application Level**Applied Business Development (32200)****Grade 10 - 12****1 Credit**

Prerequisite - any technical level business course or a graphic design course.

Applied Business Development students will practice skills of planning, organizing, directing and controlling functions of operating a business while assuming the responsibilities and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. These courses includes classroom activities as well as involving further study of the field and discussion regarding real-world experiences and applications that students encounter in owning and managing a business.

Advanced Accounting (12108)**Grade 10 - 12****1 Credit**

Advanced Accounting courses expand upon the foundational accounting principles and procedures used in business. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, and other automated tools are usually used. Topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process and further enhancement of accounting skills.

Business Management and Entrepreneurship Pathway		
Introductory Level	Technical Level	Application Level
Business Essentials	Entrepreneurship	Applied Business Development
	Business Management	
	Business Communications	
Business Finance and Accounting Pathway		
Introductory Level	Technical Level	Application Level
Business Essentials	Accounting	Advanced Accounting
	Consumer and Personal Finance	

CONSTRUCTION SCIENCE

Architecture and Construction

Introductory Level

Introduction to Industrial Technology (38001) Grade 8-12 .5 Credit

An introductory level course designed to instruct students in the basic skills necessary to all occupations in the Construction and Manufacturing areas. Students will learn basic 2D and 3D drawing techniques, design, build and race a CO2 dragster, construct small woodworking projects, and explore 3D laser and wood cutting technology.

Technical Level

Carpentry (17002) Grades 10-12* 1 Credit

Prerequisite- Introduction to Industrial Technology or *(9) enrollment in Geometry in Construction

A comprehensive one-year course designed to instruct students in the basic knowledge and skills required for construction of residential structures. Students who complete this course and successfully complete the certification tests will receive their **NCCER Core Curriculum Level 1 Introductory Craft Skills Certification.**

Woodworking Principles (17007) Grade 10 - 12 1 Credit

Prerequisite- Introduction to Industrial Technology

This is a one-year course that emphasizes the safe and correct use of hand tools, portable power tools, and basic operation of stationary woodworking machines. Such topics as lumber, plywood, squaring stock, adhesives, wood fasteners, common wood joinery, abrasives, layout tools, furniture construction, wood finishing, and other construction aspects are also explored. Each student will have the opportunity to make a pre-designed project.

Drafting/CAD (21107) Grades 9-12 1 Credit

An Introductory level course designed to expose students to both architectural and mechanical (technical) drafting skills.

Application Level

Furniture & Cabinetry Fabrication (38007) Grades 10 - 12 1 Credit

Prerequisites- Woodworking Principles

This is a one-year course that studies design, advanced processes and construction of furniture and cabinets. This class is for the student who wishes to further his/her woodworking skills by designing and building an approved project of their own.

Carpentry II (38002) Grades 10-12 1 Credit

Prerequisites- Carpentry I

An advanced comprehensive one-year course designed to instruct students in skills pertaining to rough construction and finish work. Students who complete this course and successfully complete the certification tests will receive their **NCCER Carpentry Level 1 and Level 2 Certification.**

Production Welding Processes II (39208)**Grade 11 - 12****1 Credit**

Prerequisite: Production Welding Processes I (39207)

Welding Technology 2A and 2B are also semester courses designed for the beginning welder who has taken Welding Technology 1A and 1B and would like more practice, knowledge, and practical application of the welding skills learned in Welding 1

Any skills not learned in welding 1A and 1B will also be studied.

Students wishing to make a project can do this in this course.

Manufacturing Pathway		
Introductory Level	Technical Level	Application Level
Introduction to Industrial Technology	Mass Production I	Mass Production II
	Production Welding Process I	Production Welding Process II

Mobile Equipment Maintenance**Introduction to Industrial Technology (38001)****Grade 9****.5 Credit**

This course will provide students with the opportunity to explore interests in drafting, woodworking, small gas engines and metalworking. Students will learn basic drawing techniques, design, build and race a CO2 dragster, construct small woodworking projects, work on small gas engines and build a metal toolbox.

Small Engines & Powertrains (40212)**Grade 9 – 12****1 Credit**

This class is designed to study the source, conversion, transmission, control and use of energy. The four basic types of energy systems will be studied. Most of the student's time will be spent in the shop working on various projects and activities. These projects and activities will include building a simple machine, an electric motor, an electrical kit, and overhauling a small gas engine.

CAREERS / JOBS SKILLS**Transitions (22102)****Grade 9****.5 Credit**

Transitions is a required class for freshman. The purpose of Transitions is to prepare each student to be successful at Pratt High School and then experience success upon graduation from high school.. Areas to be explored include character education, computer use, career assessment, leadership, team building, mentoring, personality profiles, and individual and team goal setting. The textbook for the class is The Seven Habits of Highly Effective Teens by Sean Covey.

Work Study (2nd semester only) (22998)**Grade 12****.5 Credit**

Miscellaneous—Workplace Experience courses provide students with work experience in a field related to their interests. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Note: if the particular subject area is known, use the code associated with the Workplace Experience course within that subject area.

Teacher Aide (A and/or B) (22995)**Grade 12****1 Credit**

Prerequisite:Teacher and Principal permission

This graded course is offered for the students who may wish to assist a teacher in various tasks.The teacher will have a description of duties required of an aide and these duties must be performed in order for the student to get credit in the course.A teacher may have only one aide per semester.Aides may assist teachers throughout the district.

Office Aide (A and/or B) (22051)**Grade 12****1 Credit**

Prerequisite:Principal permission

This graded course is offered for the student who may wish to assist the office staff in various tasks such as the delivery of messages and materials to rooms, running the copy machine and other duties as assigned by the secretaries or principals.

JAG/JOBS FOR AMERICA’S GRADUATES**JAG (A and B) (22151)****Grade 9 - 12****1 Credit**

Jobs for America’s Graduates (JAG) is a state-based national non-profit organization dedicated to preventing dropouts among young people who are most at-risk. In more than three decades of operation, JAG has delivered consistent, compelling results – helping nearly three-quarters of a million young people stay in school through graduation, pursue post secondary education and secure quality entry-level jobs leading to career advancement opportunities.

EDGENUITY ONLINE CLASSES**Grade 10-12****.5 Credit**

Online classes are used for a variety of reasons. Students will recoup credits on Edgenuity for classes they have failed in the past.

Online classes are also used for students to explore elective classes that PHS is unable to provide.

Full list can be provided by counseling office if asked.

PRATT COMMUNITY COLLEGE CLASSES**Grade 10-12****.5 Credit**

Students have the option to take classes through PCC beginning as a Sophomore. Coordinating high school classes and college classes is done in the counseling office.