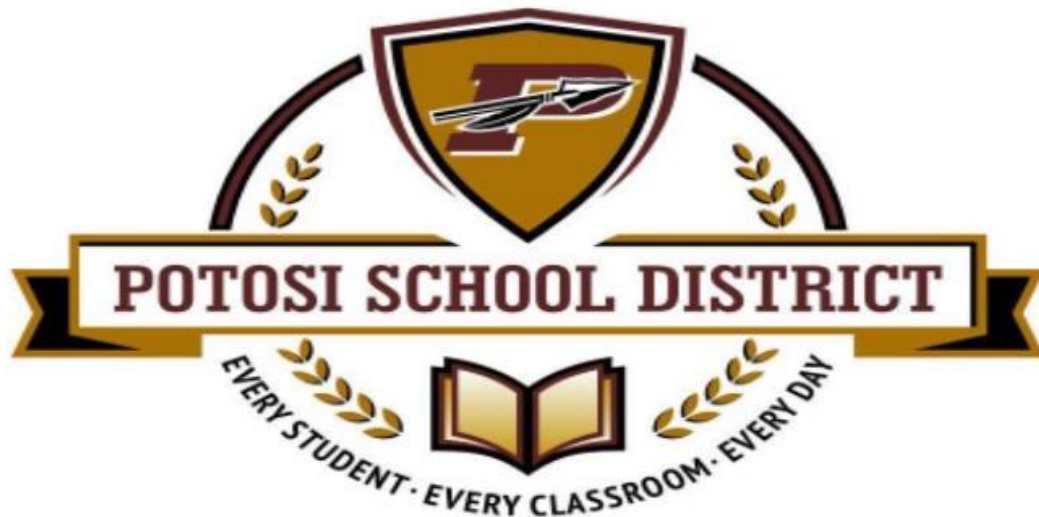


# Potosi School District

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2024-2025 ACADEMIC AND CAREER PLANNING GUIDE





# COURSE OFFERINGS

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# CREDIT REQUIREMENTS

The range of courses offered at our high school is designed to prepare students for a variety of post-secondary pursuits. Admission requirements fluctuate widely with different opportunities after high school. The chart below gives students an example of some post-secondary requirements.

	POTOSI GRADUATION REQUIREMENTS	UW-PLATTEVILLE ADMISSION SUGGESTIONS	UW-MADISON ADMISSION SUGGESTIONS	SWTC ADMISSION SUGGESTIONS
<b>ENGLISH</b>	4 Credits	4 Credits	4 Credits	4 Credits
<b>MATH</b>	3 Credits	3 Credits (Algebra, Geometry and Higher)	4 Credits (Technical Math does not apply)	3 Credits
<b>SCIENCE</b>	3 Credits	3 Credits (2 Must include lab experiences)	4 Credits	3 Credits
<b>SOCIAL STUDIES</b>	3 Credits (including .5 Government and .5 Geography, pass Civics Test)	3 Credits	4 Credits	3 Credits
<b>PHYSICAL EDUCATION</b>	1.5 Credits (WI Requirement)			
<b>HEALTH</b>	.5 Credits (WI 7-12 Requirement)			
<b>WORLD LANGUAGE</b>	Not required	Although foreign language is not required for admission, students may fulfill the UW-Platteville graduation requirement in foreign language by taking two years of the same foreign language in high school.	Two years of a single foreign language are required for admission to UW-Madison and are encouraged at other UW System campuses.	
<b>CONSUMERS EDUCATION</b>	1 Credit			
<b>ELECTIVES</b>	9 Credits for a total 25 credit minimum for graduation	An additional 4 credits may be chosen from English, mathematics, natural science, social science/history, foreign language, fine arts, computer science, and other academic areas. Some UW System campuses may also accept technical and career courses for a portion of these 4 elective credits.	An additional 4 credits may be chosen from English, mathematics, natural science, social science/history, foreign language, fine arts, computer science, and other academic areas. Some UW System campuses may also accept technical and career courses for a portion of these 4 elective credits.	3 Credits (Can include Early College Credit or Transcribed Credit Course)
	25 Total Credits to Graduate			

# GRADING SCALE

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Grades received on a report card can be interpreted according to the following scale:

<b>Report Card Grades</b>		<b>GPA</b>	<b>AP/Dual Credit/ College Courses</b>
<u>Percent</u>	<u>Letter</u>	<u>Honor Roll Points</u>	<u>AP/DC/CC - GPA</u>
93-100	A	4.00	4.50
90-92.99	A-	3.67	4.17
87-89.99	B+	3.33	3.83
83-86.99	B	3.00	3.50
80-82.99	B-	2.67	3.17
77-79.99	C+	2.33	2.83
73-76.99	C	2.00	2.50
70-72.99	C-	1.67	2.17
67-69.99	D+	1.33	1.83
63-66.99	D	1.00	1.50
60-62.99	D-	0.67	1.17
59.99 & Below	F	0.00	0.00

To compute the grade point average:

1. Assign each grade its numerical value
2. Add the numerical point values for all classes
3. Divide the total point value by the number of classes

\*Students taking Post-Secondary Enrollment classes or AP classes will have their grade applied to their GPA. Students will also receive a .75 H.S. credit for each post-secondary credit attained and .50 in GPA rank points.

# SCHEDULING INFORMATION

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This course offering guide is intended to provide you with a broad array of options. As you plan your course sequence, please consider courses that will challenge you as well as enhance your opportunities beyond high school.

It is important when making course selections that you select courses carefully; your completed schedule is considered final. It is essential that parents and students put considerable thought into the selection of courses. We will establish the school schedule based on the course requests made during registration; we determine the number of teachers and sections of courses needed based on those requests. All course offerings are subject to student and teacher availability. Some classes offered may be cancelled because of low enrollment.

## **STUDENT COURSE LOAD**

High School students need a minimum of 7 credits per year. Students may choose to take an 8<sup>th</sup> credit in place of a study hall. Credits can include Early College Credits, Start College Now Credits, Youth Apprenticeships, and other off campus courses as approved by the administration.

## **SCHEDULE CHANGES**

Students and parents are encouraged to carefully consider selections prior to signing up and taking courses for the school year. If a student is considering a class change, the student and their parents should consider the impact the adjustment will have on their transcript.

At the discretion of the administration and the counselor, course changes may be approved through the first five days of each semester. After five days, the class will/may be recorded as an F if dropped. Exceptions to the scheduling policy may be considered by the building principal.

Students who wish to drop a yearlong course at semester must get the recommendation from the instructor and approval from administration. The recommendation will only be provided if the instructor determines the student does not have the skills to be successful in the course. These decisions are not necessarily grade based but will also take into account the effort and dedication on the part of the student to succeed in the course. All final decisions regarding dropping a course will be made by an administrator.

## **EARLY GRADUATION**

Students of sophomore status may apply for early graduation if they meet the criteria set forth by the Potosi School Board approved policy – 345.61/345.61 Rule. Early graduation applications may be picked up from the High School Office or the Guidance Office.

# HIGH SCHOOL WORKSHEET

Grade 9	
SEMESTER I	SEMESTER II
English 9 COURSE #	English 9 COURSE #
Biology COURSE #	Biology COURSE #
Algebra A, Algebra I, Geometry COURSE #	Algebra A, Algebra I, Geometry COURSE #
United States History COURSE #	United States History COURSE #
Phy. Ed 9 COURSE #	 COURSE #
 COURSE #	 COURSE #
 COURSE #	 COURSE #
Study Hall COURSE #	Study Hall COURSE #

Grade 10	
SEMESTER I	SEMESTER II
English 10 COURSE #	English 10 COURSE #
Chemistry COURSE #	Chemistry COURSE #
Algebra B, Geometry or Algebra II COURSE #	Algebra B, Geometry or Algebra II COURSE #
World History COURSE #	World History COURSE #
Phy. Ed 10 COURSE #	Health 10 COURSE #
 COURSE #	 COURSE #
 COURSE #	 COURSE #
Study Hall COURSE #	Study Hall COURSE #

Grade 11	
SEMESTER I	SEMESTER II
English 11 Choice COURSE #	English 11 Choice COURSE #
Science Choice COURSE #	Science Choice COURSE #
Geometry, Algebra II, Pre-Calculus COURSE #	Geometry, Algebra II, Pre-Calculus COURSE #
Government COURSE #	Geography COURSE #
Phy. Ed choice COURSE #	 COURSE #
 COURSE #	 COURSE #
 COURSE #	 COURSE #
Study Hall COURSE #	Study Hall COURSE #

Grade 12	
SEMESTER I	SEMESTER II
English 12 choice or AP Literature COURSE #	English 12 choice or AP Literature COURSE #
Personal Finance COURSE #	Personal Finance COURSE #
 COURSE #	 COURSE #
 COURSE #	 COURSE #
 COURSE #	 COURSE #
 COURSE #	 COURSE #
Study Hall COURSE #	Study Hall COURSE #

# ART

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## **2D Art Concepts**

**Grades 9 – 12**

**One Semester**

**Course may be repeated**

This course will allow students to study the Principles of Design and work with different mediums such as pencils, charcoal, pastels, pen and ink and printmaking. Drawing experiences will be extended to include painting with acrylic, watercolor and oil paints.

## **3D Art Concepts**

**Grades 9 – 12**

**One Semester**

**Course may be repeated**

This course will allow students to learn advanced methods of hand building and throwing pots on the wheel. Sculpture is geared to the student interested in the three-dimensional concept of art and involves the exploration of various materials and their journey into space. Materials may include paper, plaster, wire, duct tape, paper machè and fibers. Realistic or abstract forms will be the result, providing student experimentation and imagination being utilized.

## **Studio Art**

**Grades 9 – 12**

**One Semester**

**Course may be repeated.**

The course is designed for the serious art student who wishes to gain additional experience in advanced techniques in drawing and painting or ceramics and sculpture. It is geared to the student who has the desire to excel in one particular medium such as the potter's wheel, oil painting, watercolor painting, or a combination of media. Independent study will be encouraged.

## **Digital Photography**

**Grades 9 – 12**

**One Semester**

**Prerequisite: None**

This course offers students the opportunity to explore the world of photography. Students will use digital SLR cameras and state of the art imaging software to complete a variety of assignments including still life photography, portraiture, and photojournalism.

# AGRICULTURE

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**\*\*ES – Agriculture for Science Equivalency Designation:** Students can take any agriculture course designated with the ES to count as ½ credit toward their 3-credit science credit requirement.

**\*\*DC – Dual Credit Designation:** Courses with this designation are offered in conjunction with Southwest Wisconsin Technical College for students to earn 3 credits in that subject at SWTC, provided they complete the course with a “B” or better.

## **Introduction to Agriculture**

**Grades 9 – 12**

**One Semester**

This class is designed to give a student an understanding of agriculture and its many related fields of study and the countless job and work opportunities available in Agriculture. Production agriculture will be discussed along with a look at weeds, farm safety, and the dairy industry. Areas of FFA including soils, crops, and livestock will also be discussed.

## **Animal Science (ES, DC)**

**Grades 9 – 12**

**One Semester**

This class features an intense study of animal nutrition, animal production practices, reproduction, record keeping and livestock selection for show. It will also include several labs and field trips that will enhance your learning in animal science. Completing this class with a B or better will earn the student credit in Animal Science 10-006-180 at SWTC.

## **Environmental Science (ES)**

**Grades 9 – 12**

**One Semester**

This class will consist of learning about the natural resources in our environment. Students will be involved with soil and water testing and analysis. Students will learn about freshwater systems and ecosystems that can be affected by pollution. Students will learn about prairies, watersheds, and the history behind conservation. Wildlife management, outdoor safety, and recreation will also be topics for this class.

## **Companion Animal Science**

**Grades 9-12**

**One Semester**

This course will cover knowledge, management practices, identification, anatomy, physiology, nutrition, health, and selection of a wide variety of small animals and companion animals such as dogs, cats, rabbits, horses, companion birds and other small caviars.



**Plant Science (ES, DC)****Grades 9 – 12****One Semester**

This class will consist of a basic learning of horticulture and practices involved in planting, transplanting, watering, fertilizing, pest control, harvesting and selling. Students will gain basic knowledge on how these processes are done and why. Knowledge of soil and the importance of horticulture will also be gained in this class. Completing this class with a B or better will earn the student credit in Plant Science 10-006-160 at SWTC.

**Greenhouse Management (ES)****Grades 9 – 12****One Semester**

The class will consist of a continuing learning of all the processes taught in Horticulture I. However, these processes will be expanded with many different types of growing media. Students will be able to select a specific project to be grown in greenhouse. Students will also be responsible for growing and keeping records of the plants for the annual spring plant sale. Different growing techniques and ways to grow plants will be examined and used.

**Introduction to Food Science I (ES)****Grades 9 – 12****One Semester**

This class is an ideal resource for anyone interested in a comprehensive overview of the science of foods. Units that would be covered would be basic make-up of food and nutrition, to food composition and preservation, to environmental concerns and world food needs. You will learn about the science of food and get insight into career opportunities for those interested in working within food science industry.

**Introduction to Food Science II****Grades 9-12****One Semester**

Building upon the science aspects of food from Food Science I, students will learn more about the food they eat impacts their bodies. Students will also learn basic cooking skills - measuring, abbreviations and proper handling of food will be discussed. Students will have the opportunity to build upon their skills by cooking full meals and desserts.

**Introduction to Veterinary Science****Grades 9 – 12****One Semester**

This class is an introduction to the process of becoming a veterinarian and the things a veterinarian must see and deal with. In addition to outlining career opportunities in this fascination field of study, this class will deal with topics on cells, tissues, systems nutrition, species comparison, principle of disease, disease prevention and diagnosis, basic surgery, and economic decision making and veterinary practice.

## **Fish and Wildlife Management (ES)**

**Grades 9 -12**

**One Semester**

Interested in the wildlife that surrounds us? This course will focus on basic wildlife management, specifically the history, hunting regulations, upland game species, whitetail deer, waterfowl, fish, and endangered species. Wildlife management, outdoor safety and recreation will also be topics for this class. Projects include taxidermy, creating habitats for several wildlife, duck decoying and others.

## **Agricultural Business/Farm Management**

**Grades 9 – 12**

**One Semester**

This course is designed to give an extra edge to students entering America's #1 industry. This class will focus on employability skills that are crucial for today's graduates. Topics will include entrepreneurship record keeping, marketing, cooperatives, taxes, agricultural law, and successful management practices.

# **BUSINESS**

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**\*\*DC – Dual Credit Designation:** Courses with this designation are offered in conjunction with Southwest Wisconsin Technical College for students to earn 3 credits in that subject at SWTC, provided they complete the course with a “B” or better.

## **Accounting I (DC)**

**Grades 11-12**

**One Year**

This course provides an understanding of the basic elements and concepts of accounting systems. Activities include the accounting cycle, entering transactions in journals, posting to ledgers, end-of-period statements and reports, payroll systems, banking activities, taxes, uncollected accounts, depreciation, inventories and notes and interest. Some people use knowledge of accounting as a means of earning a living. Almost all people use knowledge of accounting in personal financial activities. If you enjoy working with numbers and are interested in learning about managing money, accounting is the course for you! *This course is recommended for students who are pursuing careers in accounting, finance, business management, law, marketing, and the administrative assistant area.* Completing this course with a B or better will earn the student credit in accounting 10-101-102 at SWTC.

## **Taking Care of Business**

**Grades 9-12**

**One Semester**

What is happening in the business world today? What are ethics? What is management? International Business? How do you plan a business trip? This course is an overview of management practices and principles. Major topics include management functions of planning, organizing, and staffing. Time management and school and career management will also be discussed. This course is recommended for all students planning to major in business in college.

## **Personal Finance (DC)**

**Grade 12 - - Required for Graduation**

**One Year**

This course is required for graduation and provides practical, usable knowledge from which the students can benefit as they move into the rigors and demands of independent adult living. Consumer Education is designed for students to learn how to get the most from their hard-earned dollars. Students will be taught good management of personal business affairs, banking services, credit loans, installment buying, budgeting, housing, insurance, informed and skillful buying, consumer protection agencies, and the role of business and government in our economy. Emphasis is placed on developing personal economic decision-making competence. Completing this course with a B or better will earn the student credit in personal finance 10-102-151 at SWTC.

## **AP Macro-Economics and AP Micro-Economics**

**Grades 11-12 (unless instructor approved)**

**One Year**

AP Macro-Economics and Micro-Economics is designed to give you a thorough understanding of the principles of economics that guide our world, as well as the principles that apply to individual economic decision-makers. Students will use graphs, charts, and data to analyze, describe, and explain economic concepts. Each course will cover one semester of the full year of class.

# COMPUTER SCIENCE

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## **Introduction to Computer Science**

**Grades 10-12**

**One Semester**

This course is designed to offer an introduction to computer science. Students will learn the basics of computer programming along with the basics of computer science. The material emphasizes computational thinking and helps develop the ability to solve complex problems. This course covers the basic building blocks of programming along with other central elements of computer science. It gives the foundation in the tools used in computer science and prepares students for further study in computer science.

# ENGLISH

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## **English 9**

### **Grade 9 - Required**

#### **One Year**

This course is designed to introduce freshmen to different types of literature, to continue to learn and implement the conventions of standard American English, and to develop and strengthen student writing and communication. Students will study the basic literary elements through literature units focusing on plot, conflict, setting, characters, and theme. Students will read major works including *Romeo and Juliet*, *The Odyssey*, and *To Kill a Mockingbird* along with several shorter works including short stories, poetry, and nonfiction texts. Students will have opportunities to write creative, informative, and persuasive pieces, often in response to the literature in the course.

## **English 10**

### **Grade 10 – Required**

#### **One Year**

This course is designed to review and expand the student's language skills, deepen their appreciation for complex literature and challenge them to improve their writing. Students will focus on thematic units built on characterization, and will read Shakespearean tragedy, contemporary fiction, and several short story selections and other genres of literature and nonfiction texts. Major works will include Shakespeare's *Julius Caesar*, the contemporary novel *Peak*, and the classic novel *Lord of the Flies*. Furthermore, students will conduct several writing projects that include creative writing, poetry, persuasive writing, and informative and literary analysis essays, all in response to the literature in the course. There will be a focus on research and investigation throughout the year, both in connection to the literature, and separately. Students will also begin to build resumes and other career documents for their future.

## **Speech**

### **Grade 11 or 12 – Choice**

#### **One Semester (Spring Semester)**

Students explore the fundamentals of effective oral presentations to small and large groups, including informative, demonstration, and persuasive speeches. Students demonstrate competency through topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, rhetorical devices and strategies, and other essential elements of speaking successfully, including the listening process.

## **Advanced Speech (Speech II)**

**Grade 11 or 12 – Choice**

**One Semester (Spring)**

**Prerequisite – Speech I or Speech through PHS/SWTC**

Students experience, as listeners and speakers, the fundamentals of effective oral presentations to small and large groups. Students demonstrate competency in public speaking through topic selection, audience analysis, methods of organization, research, delivery techniques, and other essential elements of speaking successfully, including the listening process.

Students take their speaking beyond the classroom into real-world situations such as game announcing, Chieftain News broadcasting, and civic meeting participation.

The prerequisite for this class is either taking Speech/Public Speaking at PHS or SWTC in a previous semester. Speech II students will participate with Speech I students in the first part of each class period, then break off into their advanced coursework as determined by the instructor.

## **American Literature**

**Grade 11 or 12 – Choice**

**One Semester (Fall Semester)**

American Literature is an upper-level language arts course that introduces students to a wide range of American writing through the diverse cultural backgrounds and perspectives in this nation's past and present. Students will read and respond to different genres that revolve around the driving question, ***"What does it mean to be an American in the 'Land of the free'?"*** Some authors studied include William Bradford, Thomas Jefferson, Benjamin Franklin, F. Scott Fitzgerald, Chief John Ross, James Fenimore Cooper, Stephen Crane, Ernest Hemingway, Arthur Miller, Herman Melville, George Takei, Ralph Waldo Emerson, Emily Dickinson, Maya Angelou, Sandra Cisneros, Harriet Beecher Stowe, Martin Luther King, Jr., Frederick Douglass, Samuel Clemens, Ibi Zabo, Yusef Salaam, and Amanda Gorman.

## **AP Literature and Composition**

**Grade 11 and 12 – Choice**

**One Year**

In this course, the equivalent of an introductory college-level survey class, students are immersed in a variety of novels, plays, poems, and short stories from various periods. The primary focus of this class is to enhance students' abilities to critically analyze various forms of literature and compose literary analysis in response to that literature. In doing so, students will increase their college readiness. Students will read and write regularly using a variety of multimedia and interactive activities, interpretive writing assignments, and there will be a strong emphasis on purposeful group discussion to inform the written analysis. In addition, students will learn to recognize and understand literary devices and vocabulary. Students prepare for the AP Exam and for further study in creative writing, literature, speech, and composition, as these skills are expected within

the general education requirements for all universities. Students taking this course will be expected to dedicate time outside of the classroom as it is a college-level course. Students will be expected to take the AP exam in May.

### **Journalism and Publications**

#### **Grade 11-12 - Via application process**

##### **One Year OR One Semester**

In this course, students will design and create the high school yearbook and compose journalistic articles for an online school newspaper. This course will include writing elements, such as journalistic styles, interviewing, meeting deadlines, and editing and proofreading skills; business elements, including sales of yearbooks and advertisements, keeping records, and business communications; photography elements, including basic photography skills and photo editing skills; and graphic design elements, including planning of format and layout of the yearbook, and designing pages and elements for the yearbook. Students will also assume the creation and editing of the Chieftain News video presentations, as another element of their training in journalism. Students will work individually and cooperatively as a team to complete the various tasks. Students must complete an application process to be part of the journalism staff; admission to the class is restricted based on the application process. Students will be expected to occasionally work outside the normal school day to cover school events.

\*\*\*Journalism and Publications could be taken for one full year, or only one semester, and could be taken more than once (junior and senior year both) but would only count for up to 1 total credit of English; after this it would only count as an elective credit.

### **Creative Writing**

#### **Grade 11 or 12 – Choice**

##### **One Semester (Offered Spring 2024-2025)**

Students will study, plan, and develop, and create a range of written assignments, including poetry, nonfiction and fiction short stories, and drama scripts. Students will learn and implement the elements and techniques, including the use of literary devices, of story creation and storytelling. Students will read and study a variety of mentor texts, and apply creative literary elements and devices studied to the creation of their own written text products.

### **Written Communications**

#### **Grade 11 or 12 - Choice**

##### **One Semester (Offered Fall 2024-2025)**

Students will study and practice various business writing styles and techniques, including formal business letter format, memos, and business reports in APA format. Students will explore the formats, styles, and techniques expected in both formal and informal communications within the business setting, among colleagues, supervisors, and customers or clients. Students will understand the research writing process and will be able to use APA format correctly to cite sources of information. Students will have a basic understanding of expected communication for the place of business.

## **Grit Lit**

### **Grade 11 or 12 – Choice**

#### **One Semester (Offered Spring 2025-2026)**

We will focus on mostly contemporary literature with a theme of struggle, perseverance, and personal goal accomplishment. Includes selections relating to outdoors, sports, war, or similar topics and themes from genres including short stories, poetry, and novels. Writing will include personal narratives, literary reader response writing, and literary analysis process essays.

## **DRIVER EDUCATION**

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Driver Education will be offered through Southwest Technical College. Administration from SWTC will contact freshmen during their spring semester.

## **WORLD LANGUAGE**

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### **Spanish 1**

#### **Grades 9-12**

##### **One Year**

This course is the first Spanish course offered to high school students and is suitable for students who have never had Spanish before or for students who have had some Exploratory Spanish in middle school. In Spanish 1, students learn to describe themselves and talk about their lives (school, family, extracurriculars, etc.). We study pre-conversation skills, speaking and writing in lists and simple sentences, and recognizing words and phrases when we're reading and listening. Topics in class are presented in Spanish and with real-world materials that show the culture of Spanish-speaking people around the world. Students will keep an electronic proficiency portfolio to demonstrate their progress throughout the course.

### **Spanish 2**

#### **Grades 9-12**

##### **One Year**

##### **Prerequisite: "C" or better in Spanish 1**

This course is the second Spanish course offered to high school students and is suitable for students who received a C or better in Spanish 1 (others with teacher permission). In Spanish 2, students learn to describe their daily lives and talk about familiar topics (vacations, daily routines, ordering food at restaurants, shopping, etc.). We study pre-conversation skills, speaking and writing in complete sentences and recognizing phrases and simple sentences when we're reading and listening. Topics in class are presented in Spanish and with real-world materials that show the culture of Spanish-speaking people around the world. Students will keep an electronic proficiency portfolio to demonstrate their progress throughout the course.

## **Spanish 3/4**

**Grades 9-12**

**One Year**

**Prerequisite: "C" or better in Spanish 2, 3**

This course is for students who have completed Spanish 2 or Spanish 3 with a C or better (others with teacher permission). It is a multi-level course in which Spanish 3 and 4 students learn together side by side. In Spanish 3/4, students learn to describe and discuss a variety of familiar topics (technology, cooking, driving, careers, the environment, etc.). We practice spontaneous conversation, speaking and writing in connected sentences and paragraphs, and recognizing the main ideas and details when we're reading and listening. Topics in class are presented in Spanish and with real-world materials that show the culture of Spanish-speaking people around the world. Spanish 4 students will complete a research project that involves writing and presenting in Spanish. All students will keep an electronic proficiency portfolio to demonstrate their progress throughout the course.

## **HEALTH**

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### **Health 10**

**Grade 10 (Required)**

**One Semester**

Health is a half credit course, which alternates with Physical Education 10. The class is designed to aid the student in developing into a healthy person on all levels: physical, mental, and emotional. The class begins with units dealing with subjects such as emotions, self-image, stress, and mental health. Next, they discuss physical health, nutrition, physical fitness, medicines, and drugs. The class ends with the focus on Environmental Health and Human Sexuality.

## **MATHEMATICS**

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To survive in the technological world today, every student with mathematical aptitude needs to study Algebra and Geometry. All universities require these two subjects for entrance. ***Wisconsin Universities require three credits of high school math including Algebra I, Algebra II and Geometry. Algebra A and Algebra B is a two-year sequence which may be substituted for Algebra I with teacher recommendation.*** For these reasons, all students with necessary skills will take Algebra and Geometry. Students with special academic needs may be granted a different sequence of high school math classes. The intent of this course of study is to provide an appropriate learning experience for everyone. **Note: Students successfully completing 8th grade Algebra I will still need 3 additional credits of high school math.**



## **Algebra A**

**One year**

**Prerequisite: Recommendation of 8<sup>th</sup> grade teacher**

This is the first of a two-year sequence, which covers the same curriculum of the traditional Algebra class. The topics covered in this first of two-year Algebra class are solving linear equations, graphing, and writing linear equations, solving linear inequalities, solving systems of linear equations, linear functions, exponential functions, polynomial equations and factoring, and graphing quadratic functions.

## **Algebra B**

**One year**

**Prerequisite: Successful completion of Algebra A**

This is the second of a two-year sequence, which spends time reviewing important topics learned in the first year and moves into solving quadratic equations, square root functions and geometry, rational equations and functions, and data analysis and displays.

## **Algebra I**

**Recommended for Grade 9**

**One Year**

This course covers all the common core standards for an Algebra I class. Topics in this course include working with linear equations and graphing, linear inequalities and graphing, linear functions, exponential equations and functions, polynomials equations and factoring, graphing, and solving quadratic functions, square root functions and geometry, rational functions and data analysis and displays.

## **Geometry**

**Recommended for Grade 10**

**One Year**

**Prerequisite: Algebra I**

Geometry is the study of the properties of plane and solid geometric figures. This course will emphasize the fundamental facts of geometry that are needed in everyday life. Students are encouraged to use the algebra they have learned in earlier courses to solve problems. It includes the idea of deductive proofs and provides the students with an opportunity to learn to reason logically.

## **Algebra II**

**Recommended for Grade 11**

**One Year**

**Prerequisite: Algebra I and Geometry (minimum of a "C" average)**

After an extensive review of Algebra I, Algebra II will cover the following new materials: type products, factoring, equations, fractional equations, functions and graphs, systems of linear equations, exponents and radicals, quadratic functions, logarithms, progressions, binomials, theorems, permutations, combinations, and probability.

**Pre-Calculus****Recommended for Grade 11 or 12****One Year****Prerequisite: Algebra II**

Pre-calculus is intended for students who have completed 2 years of Algebra and one year of high school Geometry. Pre-Calculus is designed for average and above average students who would like to prepare for college mathematics, review for college entrance examinations or simply to study more mathematics. Topics covered include functions, transforming graphs, inverse functions, polynomials & rational functions, exponential and logarithmic functions and their graphs, an in depth look into trigonometry including angle measure, right angle trigonometry, trigonometric functions, equations, and their graphs, and trigonometry identities. Systems of equations/inequalities and matrix work will also be discussed. It is not recommended that students take the second semester of Pre-Calculus without taking the first semester of Pre-Calculus.

**AP Calculus****One Year****Prerequisite: Pre-Calculus and Teacher Approval**

This calculus course is designed for those students who may be taking calculus in their post-secondary education with the option of potentially earning college credit for Calculus (with a required score on the AP exam). Within the study of Calculus, students will learn essential time management and study skills needed for college and career success. Students will also learn to tap their creativity and their problem-solving skills to address course challenges. Topics covered in AP Calculus include Limits and Their Properties, Differentiation, Application of Differentiation, Integration, Logarithmic, Exponential, and other Transcendental Functions, Applications of Integration, Integration Techniques, and Infinite Series. Additional topics may be explored or substituted as the need arises, per the College Board and/or postsecondary expectations.

**Technical Mathematics****One Year****Prerequisite: Geometry**

This math course is intended for senior students looking to attend a technical school or career that uses basic mathematics the following year. First semester will focus on occupational math skills including fractions, decimals, percents, formulas and introductory algebra. Second semester topics included will be measurement, geometric shapes, statistics, finance and trigonometry. Mastery of each topic will require students to solve application problems.

# MUSIC

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## **High School Choir**

**Grades 9-12 – Course may be repeated**

### **One Year**

Choir is a class open to any student who enjoys singing, and this class is offered every day of the week. Students will learn how their voice works, how to improve their singing skills, how to read music, and will experience music from other cultures. Concerts and Large Group Festival are required events for this class. There are also opportunities to perform in local honor choirs as well as opportunities to go see live performances. This is a class everyone is sure to enjoy!

## **High School Band**

**Grades 9-12 - Course may be repeated**

### **One Year**

High School band is offered to any student who has had at least one year of individual lessons on an instrument. Emphasis is placed upon the further acquisition and improvement of skills throughout their years in band. Full band meets on Mondays, Wednesday, and alternating Fridays, with individual or small group lessons required weekly. Activities include numerous public performances with the pep band, concert band, and other ensembles as well. The curriculum offers instruction in various musical styles.

## **Exploring Music**

**Grades 9-12 - Course may NOT be repeated**

### **One Semester**

This course will allow students to explore different styles and genres of music, such as popular music, classical, jazz, and non-western music traditions. Musical experiences will be extended to include musical creation through performance, composition, audiation, and discussion-based learning. This class may be offered to any student in grades 9-12, no matter their prior musical experience or knowledge.

# PHYSICAL EDUCATION

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The basic requirement for graduation is 1.5 credits of Physical Education.

Freshman = Required 1 Semester (may be taken entire year)

Sophomore = Required 1 Semester (1 quarter in 1<sup>st</sup> semester, 1 quarter in 2<sup>nd</sup> semester)

Junior/Senior = Required .5 credits during Junior or Senior years (any additional can be taken as an elective)

**Note: Only 1 credit of Physical Education may be taken during a school year.**

## **Physical Education**

**Grades 9 thru 12 – Course may be repeated**

**One semester or year**

This course introduces students to different recreational and competitive activities. A variety of lifetime activities will be stressed. This class meets daily for one semester. Major units included in this class is golf, archery, flag football, soccer, volleyball, basketball, recreational activities, speedball, team handball, eclipse ball, floor hockey, lacrosse, softball, physical fitness testing, lifetime fitness (unit).

## **Physical Education 10**

**One Semester**

This class alternates with Health 10 and meets on a quarterly basis. CPR certification will be added. The class builds upon skills and activities introduced in Grade 9, continuing the competitive atmosphere of peer contact and developing leadership and participation.

## **Personal Fitness**

**Grades 10 (second semester status), 11, 12 – Course may be repeated**

**One semester or year**

**Prerequisite: Second semester sophomore status, junior or senior.**

This class is designed for the highly self-motivated. The focus will be participation in a personal strength and conditioning program. Students will implement their own individual program using basic to advanced strength and conditioning training principles. Students will participate in weight training, speed and agility programs and aerobic conditioning workouts. Grading will be based on participation, record keeping, knowledge of exercises, and improvement from various physical pre-tests.

# SCIENCE

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## **Biology**

**Grade 9 - Required**

**One year**

Biology is an investigation of life, beginning with the Characteristics of Life, Water and its importance for living organisms, and Biochemistry. Upon this foundation of life's building blocks, students then delve into Cells, Cellular Respiration, and Photosynthesis. A deep dive into the DNA molecule and Genetics follows suit, with the course wrapping up our work in the field of Natural Selection and Micro-evolution. Interwoven through all these topics, students will be collecting and analyzing data, designing, and conducting investigations, formulating opinions, utilizing data as evidence to support opinions, and gaining a greater appreciation for the nature of life.

## **Chemistry**

**Grade 10 - (required)**

**One year**

This course will focus on the behavior of matter. The course includes the following topics: scientific observation and measurement; chemical symbols, formulas, equations, and reactions; nuclear and electron structure of atoms and molecules; the periodic table, and stoichiometry. Grades are earned based on laboratory work, tests and assignments.

## **AP Chemistry**

**Prerequisite: Chemistry grade of “B” or better**

**One year**

This course is designed to cover the content seen in the first semester of a college-level General Chemistry course. The course will engage students in six science practices while exploring the 4 big ideas of Chemistry. Each big idea is composed of enduring understanding, learning objectives (117) and essential knowledge. Students will have the opportunity to take the AP Chemistry Exam at the end of the year with a chance to earn college credit.

## **Anatomy and Physiology**

**Prerequisite: Biology**

**One year**

This course will explore human anatomy and physiology extensively. The course begins by building a solid foundation in biochemistry, cellular biology, genetics, homeostatic mechanisms, and medical terminology. Having achieved the former, an intricate exploration into the systems associated with support and movement, integration and coordination, processing and transporting, and the human life cycle ensue. Throughout the process, laboratory focus will primarily be on the physiology component, with some elements of identification of structures through dissection. Intermingled in all of the topics, students will be expected to research and present on health-related issues. To highlight our work in Anatomy and Physiology, Potosi students will take a trip to UW-Platteville’s cadaver lab, which will occur in the spring, as well as, other potential field trips as opportunities arise. Finally, at the beginning of 4th Quarter, students will be able to collectively choose which topics they want to explore.

## **Physics**

**One Year**

**Corequisite: Algebra II**

This course serves as an introduction to the basic physics topics. The first three quarters covers the traditional physics topics of force, motion, energy, power, acceleration, thermodynamics and inertia. The final quarter is a selection from advanced topics such as electricity and electronics, light waves and sound waves, energy production, astronomy, or nuclear physics. Grades are earned on the basis of laboratory work, laboratory analysis and tests.

## **AP Environmental Science**

### **One Year**

#### **Prerequisite: Biology and Chemistry**

AP Environmental Science is an investigation into the realm of living organisms, the environment, and how humans impact living organisms and the environment. It's really a focused study on our one-and-only home, Earth. Through the various topics students will be thinking, researching, conducting labs, field work, making connections within our community, collecting data, formulating opinions, utilizing data as evidence, gaining a broader perspective of our world and how we impact it, and gaining a deeper appreciation for the complex nature of Earth and Aldo Leopold's concept of Land Ethic.

## **Water, Land & Ecosystems**

### **One Year**

#### **Prerequisite: Biology and Chemistry**

Water, Land & Ecosystems will investigate the realm of living organisms, the environment, and how humans impact living organisms and the environment. Through the various topics students will be thinking, researching, conducting labs, field work, making connections within our community, collecting data, formulating opinions, utilizing data as evidence, gaining a broader perspective of our world and how we impact it, and gaining a deeper appreciation for the Earth and Aldo Leopold's concept of Land Ethic.

## **SOCIAL STUDIES**

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### **United States History**

#### **Grade 9 (Required)**

##### **One Year**

The study of U.S. History during the freshman year will cover the period of time from WWI to the present. It will involve an examination of major patterns and events that have involved our nation in its past. Major topics to be covered are as follows: WWI, the prosperity of the 1920's, the Great Depression, Prohibition, WWII, the Cold War, the Korean War, the turbulent 60's, the Cuban Missile Crisis, Vietnam, Watergate, the Equal Rights Movement, Desert Storm, and current topics of today.

### **World History**

#### **Grade 10 (Required)**

##### **One Year**

A survey course of all the elements which have affected the development of western culture as we know it today. Some topics are treated in more detail than other Greek and Roman civilization, medieval period, the reformation and the renaissance are major topics. Also covered are pre-historic and early history of the people of the Middle East, the native people of Africa and the Americans. The purpose is to give the students a basic knowledge of why societies have developed into what they have become today.

**Government****Grade 11****Semester 1 (Required)**

This class is concerned with the study of U.S. citizenship and how our government in the United States works. Emphasis is placed on the various levels of the government (Federal, State, and Local) and the 3 branches of government (Legislative, Judicial, and Executive). Investigating how these branches work and how the system of checks and balances keeps everything in order while maintaining equality is a high priority.

**Geography****Grade 11****Semester 2 (Required)**

This class is designed to help students understand the basic physical, human, economic, political and cultural aspects of geography around the world. Students learn the location of countries around the world as well as their capitals and physical features. We also take a close look at the United States, the location of states, capitals and physical aspects of our country. The class will take what they have learned throughout the semester and students will create their own country.

**Psychology****Grades 9-12****One Semester**

Psychology is the study of human behavior, developmental and mental process. We investigate topics such as memory, intelligence, infancy/childhood, personality, consciousness, as well as psychological research methods. Throughout the class you will learn about who you are and why many do some of the things you do through PSI'S – Personal Skills Inventories. We may also participate in and conduct several experiments.

**Sociology****Grades 9-12****One Semester**

Sociology is the study of why people behave the way they do. What motivates them to act in a certain way? This class will cover a wide variety of topics that may change due to the make-up of the class. We will dive into the criminal mind and investigate what makes a person commit a crime. How are they different from the rest of the people that don't commit crimes? We will look at the issue of racism and discrimination and try to understand what causes people to hate. We will look at the idea of family and the influence people close to us have on our daily decisions.

# TECHNICAL EDUCATION

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## **Woods**

### **Grades 9-12**

#### **One Semester**

This course focuses on exploratory experiences that will provide students the basic skills necessary to function in any manufacturing environment. The course emphasizes project planning and power tool safety through the creation of woodworking exercises and projects. Students will acquire the principle properties of wood and lumber then apply this to instructor lead wood projects. These projects will strategically apply different tools, techniques, wood species, fastening techniques, and finishing techniques.

## **Metals**

### **Grades 9-12**

#### **One Semester**

This course focuses on exploratory experiences that will provide students the basic skills necessary to function in any manufacturing environment. The course emphasizes project planning and power tool safety through the creation of metal exercises and projects. Students will acquire the physical, chemical, and machine properties of metals and steel then apply this to instructor lead metal projects. These projects will strategically apply different tools, techniques, metal types, fastening techniques (other than welding), and finishing techniques.

## **Structures**

### **Grades 9-12**

#### **One Semester**

This course introduces students to the construction process and basic constructions systems. Students will study the planning process and the construction of foundation systems, floor, wall, and roof framing. This is a hands-on course. Students will complete a variety of real-world construction projects lead by the instructor. Plumbing, Electrical, Water, and Concrete systems will also be discussed and applied to meet project needs.

## **Mechanics**

### **Grades 9-12**

#### **One Semester**

This course is designed to introduce students to mechanical processes and basic engine systems. Students will train in the theory of engines as well as electrical, exhaust, fuel, and other systems encompassed around internal combustion motors. In this hands-on course students will repair, build, troubleshoot, and test engines and machines. Suspension, transmissions, body work, and vehicle features will also be discussed, and firsthand knowledge attained.



## **Advanced Shop-Independent Experience**

**Grades 9-12**

**One Semester**

**Prerequisite: Welding, Metals, Woods, Structures, or Mechanics**

This course is designed to be 100% hands on and 100% student driven. Students will develop knowledge of project design, drafting, developing a bill of materials, and reporting project progress. This knowledge will then be applied into their own projects they will individually design, price, build, and evaluate. Students are encouraged to develop and construct a project based on the tolerances of their prerequisites. Students wishing to construct a project outside of the tolerances of their pre-requisite may do so with the instructor's permission.

## **Advanced Shop-Workplace Experience**

**Grade 9-12**

**One Semester**

**Prerequisite: Welding, Metals, Woods, Structures, or Mechanics**

This course is designed to be 100% hands on and 100% student driven. Students will develop the knowledge of designing a project, reading design plans, developing a bill of materials, and reporting project progress. This knowledge will then be applied into a project that students will design, price, build, and evaluate in a workplace/team environment. Students will also have the opportunity to hold different responsibilities of the workplace team such as design lead or project foreman. Large projects will be chosen and completed that play to all team members' strengths.

## **Engineering Design**

**Grade 9-12**

**One Semester**

Engineering Design uses a "hands-on," problem-solving approach that allows students to learn the fundamentals of engineering design and development through the use of dynamic, real-world situations. Students learn to use the Design Process to solve problems in a way that drives product development and innovation. Students will develop the fundamentals of drafting, computer-aided drafting, and architectural design. These fundamentals will then be applied to structural challenges, manufacturing, and building design. This class is highly encouraged for students before enrolling in Advanced Shop, Robotic, Electromechanical Design, or Project Management classes but not required.

## **Robotics**

**Grade 9-12**

**One Semester**

Students will utilize an activity-project-problem-based (APPB) learning approach to design, construct, program, evaluate and troubleshoot operator controlled and autonomous robots that can perform a variety of tasks from the simple to the complex. Students will learn to utilize Basic Output and Input Programming; While and If-Else Structures; Variables and Functions to operate robots and manage tasks. Students will also apply their electrical engineering knowledge to construct advanced electrically controlled robots or vehicles. Students will be

using their hands and their minds to put science, Technology, Engineering and math skills to work solving real world problems.

### **Project Management**

**Grade 11-12**

**One Semester**

**Prerequisite: Engineering Design and either woods, metals, structures, mechanics, or welding. Or permission from the instructor.**

The goal of this course is to offer students the opportunity to work independently, as a team, and with the community. Students will work to design, price, propose, and even build projects within their community and school district. Real world building of real-world problems to better themselves, classmates, and community. Opportunities await for students to work as different valuable members of the team including lead positions. Through these projects, students will also enhance skills such as communication, professionalism, and citizenship all the while becoming valuable members of their communities.

### **Agricultural Engineering**

**Grade 9-12**

**One Semester**

This course will illustrate how engineering and technology has shaped the agricultural industry. Discussion of topics from the dawn of agriculture with hand and horse drawn equipment to the new era of agriculture with gps and robotics. The connection of engineering and technology will be made between everyday agriculture works such as: fencing, agricultural structures, livestock housing and handling, crop storage and feeding, livestock and crop harvesting equipment, machinery, implements and farm safety. Other systems will also be discussed such as electrical, plumbing, water, drainage, and land management as it relates to agriculture.

### **Welding I**

**Grade 9-12**

**One Semester**

This course will be focusing on the following welding techniques: selection and use of arc welding equipment, and the basic welding positions and types; also, selection and use of gas welding equipment and mastery of cutting. Included in this will be safety, selection of steel, and wire welding.

### **Advanced Livestock and Crop Production**

**Grade 9-12**

**One Semester**

**Prerequisite: Animal Science or Horticulture I**

This course provides advanced knowledge of the animal science field. Topics include marketing and economics in livestock production, animal health, animal environments, anatomy and physiology, genetics and reproduction, animal feedstuffs, and job-related safety. Participants will experience animal concepts through the completion of hands-on activities. Crop production offers instruction

in plant science and gives attention to soils, chemicals, fertilizer, marketing, plant feeding, field crop management, and economics in field crop production.

## LEARNING OPPORTUNITES

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### **Self-Advocacy**

#### **During Power Hour**

Self-advocacy is an opportunity for special education students to learn about their rights and responsibilities as they prepare to transition to adulthood, employment, and post-secondary education. It is offered every other year and recommended for sophomores and juniors in the special education program. Students take this course in the fall of their sophomore, junior, or senior year in an effort to meet their IEP transition goals. The course aims to teach students about their individual disability and how to advocate for appropriate accommodations. Students will also learn about their legal rights and responsibilities under the government acts IDEA and ADA. In this course, special education students will develop a list of resources they may need upon entering post-secondary education or the workforce, and they will create a plan for disclosure. Other topics covered include goal setting, employment and college searching, and the updating of employment documents such as a resume and cover letter.

### **Service Seminar**

#### **One Semester**

#### **Grades 11 and 12 – Course may be repeated**

#### **Student placement will be determined by the Counselor or Principal**

Service Seminar is an opportunity for students to gain career experience by showcasing their leadership in real-life project development. Examples of work may include tutoring, making bulletin boards, making copies, helping with recess supervision, or program development. Placement by office will commensurate with district need/student ability.

## EDUCATION FOR EMPLOYMENT

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### **Work Experience – Classroom**

#### **Grades 11 – 12**

#### **One Semester**

The work experience program offers students the opportunity to explore their career goals and to study current issues in the workplace. Topics include employability skills, time management, employee/employer relations and how to deal with customers. **Students enrolled in the course can enroll in Youth Apprenticeship** and be released from school in order to work in private industry. Students can receive school credit for employment outside the school (one hour/day first year and up to 2 hours/day second year with permission). **See instructor or counselor for more information.**

## **Youth Apprenticeship**

**Grades 11 – 12**

**One Semester/One Year**

***Prerequisite: Students must take Work Experience – Classroom to take Youth Apprenticeship***

Youth apprenticeship programs offer students the opportunity to earn while you learn. Students will engage in a variety of school-based and work-based learning activities. Depending upon the program the student selects, school-based instruction takes place at either Potosi High School or Southwest Technical College. A student's employer delivers work-based learning. There are two-year and one-year programs. **See instructor or counselor for more information.**



# PROGRAMS OF STUDY

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## THE PROGRAMS OF STUDY:

• Agriculture, Food and Natural Resources .....	30
• Architecture and Construction .....	32
• Arts, A/V Technology, and Communications .....	34
• Business, Management and Administration .....	36
• Education and Training.....	38
• Finance .....	40
• Government and Public Administration.....	42
• Health Science .....	44
• Hospitality and Tourism.....	46
• Human Services .....	48
• Information Technology.....	50
• Law, Public Safety, Corrections and Security .....	52
• Manufacturing .....	54
• Marketing.....	56
• STEM (Science, Technology, Engineering and Math)....	58
• Transportation, Distribution and Logistics .....	60

# PROGRAMS OF STUDY: OVERVIEW

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*"A **program of study** is a comprehensive, structured approach for delivering academic and career and technical education to prepare students for postsecondary education and career success."*

## **What is a program of study?**

The Potosi School District's Programs of Study are based on the National Programs of Study framework, which aligns high school and postsecondary education with the demands of the global economy.

## **Career Clusters and Career Pathways within the Programs of Study**

There are sixteen Career Clusters organized by a common theme or interest. Learning experiences from different Programs of Study often complement each other so it is important to review a variety of them. Career Clusters (for example: Health Science) are often refined further by career pathways (for example: Nursing) for those students who already know which career they plan to pursue. Students can get more information through their account on the Career Cruising website.

## **Connecting Programs of Study to a Student's Academic and Career Plan**

We expect every Academic and Career Plan to be as unique as each of our students. For example:

- Students passionate about pursuing a specific career can pursue opportunities aligned to a single Program of Study.
- Students can choose to blend portions of one Program of Study with another based on their skills and interests.
- Students who are unsure of their long-term career interests can explore opportunities in many different Programs of Study that will help them better understand themselves and the skills and knowledge needed for different careers.
- All students are advised to select opportunities for rigor (college level coursework in academic and/or technical subjects) in their areas of strength and/or interest to ensure that they continue to develop their

knowledge, skills, and dispositions for success each year.

## **Coursework listed in the Programs of Study**

The Potosi School District has listed some recommended courses and/or learning experiences on each of the Programs of Study pages to assist students in the academic and Career Planning process. These experiences are specifically designed to provide exposure to, and help students build related skills for, the careers associated with that Program of Study.

Recommendations for related postsecondary coursework have also been provided for those up for an added challenge. Students can access an even wider variety of college level experiences through the youth/course options programs.

Please note that the courses listed are broad recommendations only and are not intended to direct students away from other areas of interest. We have not included students' core academic courses needed for graduation in the Programs of Study.

The coursework students take, along with the level of rigor they choose to pursue, should be informed by student interests as well as the type of education students want to pursue after high school.

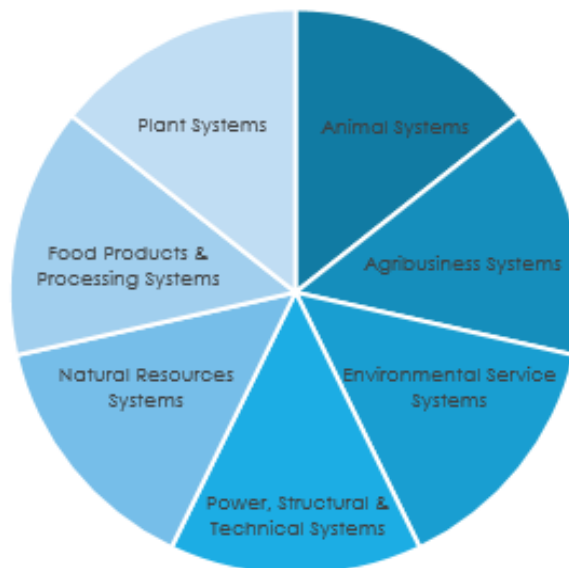
## **Post-secondary Planning**

Students can utilize Wisconsin's Start College Now program, courses that provide Transcribed Credit/Advanced Standing, and Advanced Placement coursework to begin some of their post-secondary education while still in high school.



# AGRICULTURE, FOOD AND NATURAL RESOURCES

This Program of Study prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"> <li>-Technology Education, Spanish, Business Education, Art or</li> <li>-Band and Choir Combo</li> </ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"> <li>-<b>Math:</b> Applied Mathematics, Pre-Calculus, Calculus, Technical Math</li> <li>-<b>Social Studies:</b> Current Events</li> <li>-<b>Science:</b> Advanced Chemistry, Environmental Science &amp; Biological Techniques, Physics</li> <li>-<b>English:</b> Business Communications</li> <li>-<b>Agriculture:</b> Animal Science (ES), Horticulture I &amp; II (ES), Veterinary Science, Environmental Science (ES), Ag Business, Wildlife Management (ES)</li> </ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"> <li>-<b>English:</b> AP English</li> <li>-<b>Math:</b> AP Calculus</li> <li>-<b>Business:</b> AP Economics</li> </ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	FFA, Environmental Club
<b>INDUSTRY CERTIFICATION</b>	N/A



# AGRICULTURE, FOOD AND NATURAL RESOURCES

## Career Types by Pathway

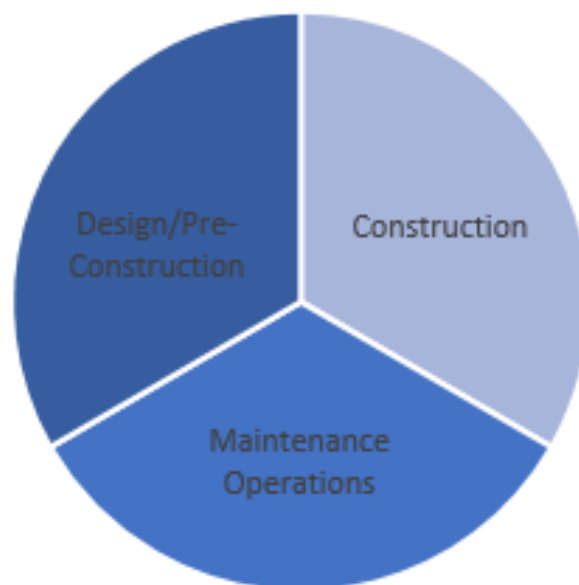
HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>AGRIBUSINESS SYSTEMS</b>				
Farm and Ranch Workers	Agriculture Contact Provider	Agribusiness Management Agribusiness Operations Technology Agriculture Agri-Communications Farm and Ranch Business Management	Agricultural Economics Agribusiness Agricultural Education Agricultural Journalism Professional Golf Management	Agricultural Economics Agriculture Leadership Education Statistics
<b>ANIMAL SYSTEMS</b>				
Animal Caretakers Feed Sales	Ag Dairy Technician Beef Quality Assurance Livestock Production Pork Quality Assurance	Animal Science Equine Industry Management Livestock Industry Management Swine Management Veterinary Technology	Animal Science Biochemistry Grazing Livestock Systems Veterinary Science Veterinary Technologist	Animal Science (Nutrition, Genetics or Physiology) Biochemistry Integrative Biomedical Sciences Veterinary Medicine
<b>ENVIRONMENTAL SERVICE SYSTEMS</b>				
Refuse and Recyclable Material Collection		Environmental Science Laboratory Science Technician	Aquatic Ecology Conservation Biology Soil Science Reclamation	Entomology Natural Resources Science
<b>FOOD PRODUCTS &amp; PROCESSING SYSTEMS</b>				
Butchers and Meat Cutters Meat Processing Slaughter and Meat Packer	Ag Dairy Technician Commercial Plant Production Food Handlers Permit Quality Control	Agronomy Diversified Agriculture Dietary Management Food Science and Technology Quality Control	Agronomy Animal Science Food Science	Agronomy Animal Science (Meat Science Focus) Food Science Technology Nutrition
<b>NATURAL RESOURCES SYSTEMS</b>				
		Natural Resources Systems Soil and Water Conservation Wildlife Management	Soil Science Environmental Studies Fish and Wildlife Grassland Ecology DNR Warden	Forestry Natural Resources Science
<b>PLANT SYSTEMS</b>				
Nursery and Greenhouse Workers Seed Sales Tree Trimmers and Pruners	Commercial Horticulture	Commercial Agronomy Horticulture Crop Production Forestry/Landscape	Agronomy Biochemistry Horticulture Forestry	Agronomy Biochemistry Horticulture Forestry
<b>POWER, STRUCTURAL &amp; TECHNICAL SYSTEMS</b>				
Electrician Apprenticeship Plumbing Apprenticeship Welding Apprenticeship	Parts Distribution and Management Parts/Sales and Management	Agri-Technology Farm Mechanics John Deere Ag Technician Mechanized Agriculture	Agriculture Operations Mechanized Marketing Mechanized Science Processing Operations	Agricultural and Biological Systems Engineering Mechanized Systems Management





# ARCHITECTURE AND CONSTRUCTION

This Program of Study prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"> <li>-Technology Education, Spanish, Business Education, Art or</li> <li>-Band and Choir Combo</li> </ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"> <li>-<b>Art:</b> 2D Art</li> <li>-<b>Math:</b> Applied Mathematics, Pre-Calculus, Calculus, Technical Math</li> <li>-<b>Social Studies:</b> Current Events</li> <li>-<b>Science:</b> Physics</li> <li>-<b>Technology Education:</b> Intro to Computer Aided Drafting, Architectural Drafting and Design, Construction Systems</li> <li>-<b>Business:</b> Accounting I, Accounting II</li> <li>-<b>Agriculture:</b> Welding I &amp; II</li> </ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"> <li>-<b>English:</b> AP English</li> <li>-<b>Math:</b> AP Calculus</li> <li>-<b>Business:</b> AP Economics</li> </ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>EXPERIENTIAL LEARNING</b>	Youth Apprenticeships
<b>INDUSTRY CERTIFICATION</b>	Snap-On Tool Certification, OSHA 10 Hour Certification



# ARCHITECTURE AND CONSTRUCTION

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>CONSTRUCTION</b>				
Carpentry Iron Working Masonry	Carpentry Construction Management Electrical and Power Transmission Iron Working	Carpentry Construction Management Electrical and Power Transmission Iron Working	Construction Management	Construction Management Construction Engineering
<b>DESIGN AND PRE-CONSTRUCTION</b>				
	Interior Design Surveying Technology		Architectural Engineering Technology Civil Engineering Technology Interior Design Landscape Architecture	Architectural Engineering Technology Civil Engineering Technology Environmental Design Interior Design Landscape Architecture
<b>MAINTENANCE AND OPERATIONS</b>				
Electrical/Electronics Equipment, Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology	Electrical/Electronics Equipment, Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology	Electrical/Electronics Equipment, Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology	Industrial Engineering	



# ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Individuals that work in the AV communications industry manufacture, sell, rent, design, install, integrate, operate, and repair the equipment of audiovisual communications. Careers include designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"> <li>-Technology Education, Spanish, Business Education, Art or</li> <li>-Band and Choir Combo</li> </ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"> <li>-Art: 2D Art, 3D Art, Studio Art, Digital Photography</li> <li>-<b>Math:</b> Applied Mathematics, Pre-Calculus, Calculus, Technical Math</li> <li>-<b>Computer Science:</b> Computer Applications, WEB 2.0, Business Communications</li> <li>-<b>English:</b> Journalism &amp; Publications, Creative Writing, American Literature, Drama Theatre</li> <li>-<b>Technology Education:</b> Intro to Computer Aided Drafting, Advanced Drafting &amp; Solid Modeling</li> <li>-<b>World Languages:</b> Spanish 3 &amp; 4</li> <li>-<b>Music:</b> Choir, Band</li> </ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"> <li>-<b>English:</b> AP English</li> <li>-<b>Math:</b> AP Calculus</li> <li>-<b>Business:</b> AP Economics</li> </ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	Musicals, Forensics, Yearbook, Plays



# ARTS, A/V TECHNOLOGY & COMMUNICATIONS

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>AUDIO &amp; VIDEO TECHNOLOGY &amp; FILM</b>				
	Audio and Recording Technology Video Production	Audio and Recording Technology Communications Technology Electronics Industrial Video Production Film/Video Technology	Design and Visual Communications Electrical Engineering Film Studies & Production Mechanical Engineering Telecommunications Management	Electronics Engineering
<b>JOURNALISM &amp; BROADCASTING</b>				
	Certification by the Society of Broadcast Engineers Radio Announcing Radio Production	Audio and Recording Technology Radio/TV Journalism Mass Media/Communications Media Arts	Advertising Broadcasting Journalism News-Editorial Visual Communication	Journalism
<b>PERFORMING ARTS</b>				
Movie and Stage Grip Usher and Ticket Taker Movie Projectionist	Musical Instrument Repair and Tuning Sound Engineering Theatre Technology	Camera Operation Music Musical Instrument Repair and Tuning Sound Engineering Sound Engineering Theatre Technology	Arts Administration Dance Music State Management Theatre Arts	Music Music Arts
<b>PRINTING TECHNOLOGY</b>				
Bookbinder and Bindery Worker Graphic and Printing Equipment Operator	Desktop Publishing Digital Publishing Graphic Communication Offset Publishing Web Page Design	Electronic Imaging and Graphics Graphic Design Media Arts Printing Technology Visual Publications	Computer Graphics Graphic Design Industrial Design Printing Management Visual Communication and Design	
<b>TELECOMMUNICATIONS</b>				
	Electronics Technology	Computer and Information Sciences Computer Systems Analysis Electronics Technology in Telecommunications Information Technology	Computer Networking and Telecommunications Electronics Engineering Operations Technology Telecommunications Management	Electronics Engineering Information Technology Telecommunications Engineering
<b>VISUAL ARTS</b>				
Photograph Processing Worker	Commercial Art Digital Publishing Graphic Art Multimedia Photography	Commercial Art Graphic Design Interior Design Media Arts Visual Publications	Art History Fashion Design Graphic Design Interior Design Studio Arts Visual Communications	Art History Studio Arts



# BUSINESS, MANAGEMENT & ADMINISTRATION

The Business, Management and Administration Cluster prepares learners for careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"><li>-Technology Education, Spanish, Business Education, Art or Band and Choir Combo</li></ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"><li>-<b>Business:</b> Accounting I, Accounting II, Taking Care of Business</li><li>-<b>Math:</b> Applied Mathematics, Pre-Calculus, Calculus, Technical Math</li><li>-<b>English:</b> Business Communications</li><li>-<b>Social Studies:</b> Psychology, Sociology, Current Events</li></ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"><li>-<b>English:</b> AP English</li><li>-<b>Math:</b> AP Calculus</li><li>-<b>Business:</b> AP Economics</li></ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	FBLA
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# BUSINESS, MANAGEMENT & ADMINISTRATION

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>ADMINISTRATIVE SERVICES</b>				
Administrative Assistant Computer Operator Customer Service Data Entry Specialist	Court Reporting Information Processing Legal or Medical Reporting Information Technology Office Administration	Court Reporting Information Processing Legal or Medical Reporting Information Technology Office Administration	Information Systems Information Technology Management	
<b>BUSINESS INFORMATION MANAGEMENT</b>				
	Business Administration Information Technology Office Technology	Business Administration Information Technology Office Technology	Business Administration Information Systems Information Technology Management	Business Administration Information Technology
<b>HUMAN RESOURCES MANAGEMENT</b>				
Human Resources Clerk	Business Administration	Business Administration	Human Resources Management	Business Administration
<b>MANAGEMENT</b>				
	Certified Government Auditing Professional Certified Professional Consultant	Agribusiness Business Administration Marketing	Business Administration Entrepreneurship Marketing Finance Hospital Management International Business	Business Administration Management
<b>OPERATIONS MANAGEMENT</b>				
	Business Administration Retail Management	Agribusiness Business Administration	Business Administration Marketing Operations Management	Business Administration



## EDUCATION & TRAINING

This Program of Study prepares learners for careers in planning, managing and providing education and services, and related learning support services such as administration, teaching/training, administrative support, and professional support services.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"> <li>-Technology Education, Spanish, Business Education, Art or</li> <li>-Band and Choir Combo</li> </ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"> <li>-<b>Math:</b> Applied Mathematics, Pre-Calculus, Calculus, Technical Math</li> <li>-<b>Social Studies:</b> Psychology, Sociology</li> <li>-<b>Science:</b> Advanced Chemistry, Anatomy &amp; Physiology, Physics</li> <li>-<b>English:</b> Creative Writing, Business Communications</li> </ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"> <li>-<b>English:</b> AP English</li> <li>-<b>Math:</b> AP Calculus</li> <li>-<b>Business:</b> AP Economics</li> </ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>EXPERIENTIAL LEARNING</b>	Service Learning tutoring hours with Elementary Classes
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# EDUCATION & TRAINING

## Career Types by Pathway

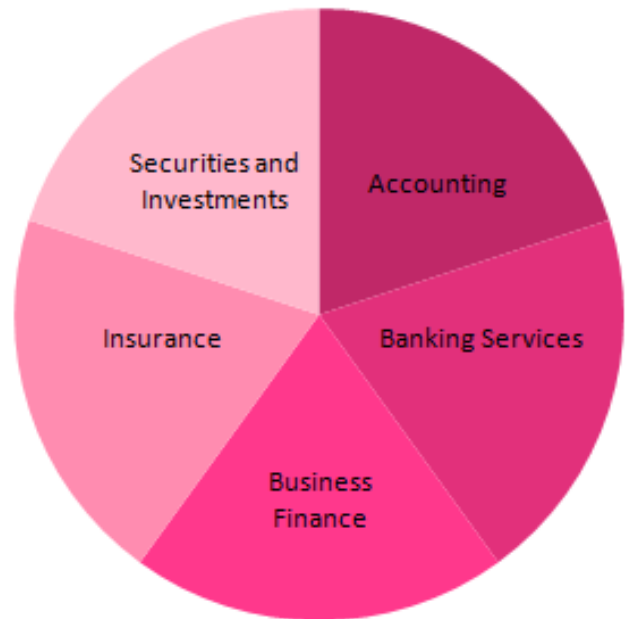
HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>ADMINISTRATION &amp; ADMINISTRATIVE SUPPORT</b>				
				Educational Administration Educational Studies Business Administration Administration and Supervision
<b>PROFESSIONAL SUPPORT SERVICES</b>				
	Personal Trainer	Library Technical Assistant	Speech-Language Pathology Social Work Information Science and Technology Special Education and Communication Disorders	Educational Psychology Human Services Instructional Technology School Psychology School Counseling Social Work
<b>TEACHING/TRAINING</b>				
Child Care Worker Coach of Community-based Sports Leagues	Early Childhood Education Assistant Coaching	Early Childhood Education Sign Language Interpreting Education Paraprofessional	Early Childhood Education Elementary Education Middle Level Education Secondary Education Special Education Athletic Trainer	Curriculum and Instruction Education Teaching, Curriculum and Learning Leadership Education Leadership Studies





# FINANCE

The Finance Cluster prepares learners for careers in financial and investment planning, banking, insurance and business financial management. Career opportunities are available in every sector of the economy specific skills in organization, time management, customer service and communication.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"> <li>-Technology Education, Spanish, Business Education, Art or</li> <li>-Band and Choir Combo</li> </ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"> <li>-<b>Business:</b> Accounting I, Accounting II, Virtual Business, Business Communications</li> <li>-<b>Math:</b> Applied Mathematics, Technical Math</li> <li>-<b>English:</b> Business Communications</li> <li>-<b>Agriculture:</b> Agriculture Business/Farm Management</li> </ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"> <li>-<b>English:</b> AP English</li> <li>-<b>Math:</b> AP Calculus</li> <li>-<b>Business:</b> AP Economics</li> </ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	FBLA
<b>INDUSTRY CERTIFICATIONS</b>	N/A



## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>ACCOUNTING</b>				
Accounting Clerk Bookkeeping Clerk	Business Administration	Business Administration		Accounting Certified Public Accountant
<b>BANKING SERVICES</b>				
Bank Teller Commodity Banker		Business Administration	Banking and Finance Business Administration Auditor	Banking and Finance Business Administration
<b>BUSINESS FINANCE</b>				
		Business Administration International Business Trade and Finance	Business Administration Economics	Accounting and Finance
<b>INSURANCE</b>				
Customer Service Agent Processing Clerk	Tax Preparation	Business Administration Property and Casualty Insurance	Mathematics Statistics	Actuarial Science
<b>SECURITIES AND INVESTMENTS</b>				
Payroll Clerk	Certified Financial Analyst Certified Financial Planner	Agribusiness Business Administration Court Reporting Information Technology Office Administration Office Technology	Accounting Business Administration Finance	Business Administration Management



# GOVERNMENT & PUBLIC ADMINISTRATION

This Program of Study prepares learners for careers in planning and performing government functions at the local, state and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"> <li>-Technology Education, Spanish, Business Education, Art or</li> <li>-Band and Choir Combo</li> </ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"> <li>-<b>Business:</b> Accounting I, Accounting II</li> <li>-<b>Math:</b> Applied Mathematics, Pre-Calculus, Calculus, Technical Math</li> <li>-<b>Social Studies:</b> Psychology, Current Events</li> <li>-<b>Science:</b> Environmental Science &amp; Biological Techniques</li> <li>-<b>World Language:</b> Spanish 3 &amp; 4</li> </ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"> <li>-<b>English:</b> AP English</li> <li>-<b>Math:</b> AP Calculus</li> <li>-<b>Business:</b> AP Economics</li> </ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	Leadership role in any student organization, Class Officer, LEO Club
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# GOVERNMENT & PUBLIC ADMINISTRATION

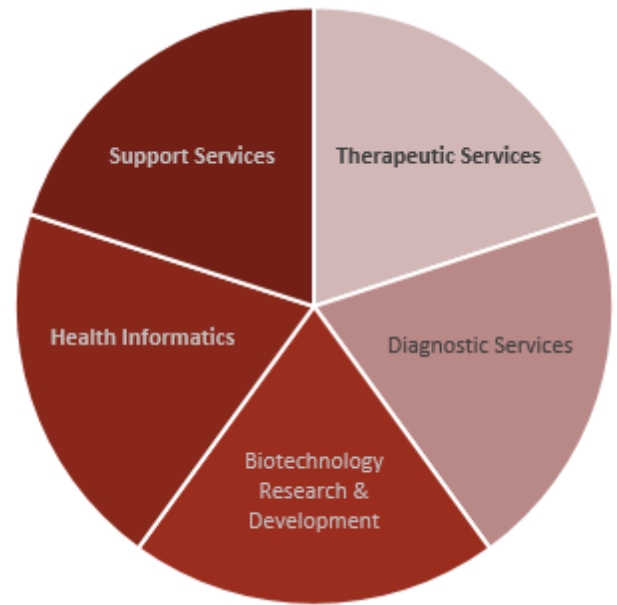
## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>FOREIGN SERVICE</b>				
			International Studies Sociology Geography and History International Business Economics Statistics	Survey, Research and Methodology Sociology Economics Statistics
<b>GOVERNANCE</b>				
			Political Science Geography Economics Statistics	Political Science Geography Economics Statistics Research and Methodology
<b>NATIONAL SECURITY</b>				
			Military Service Psychology Electrical or Computer Engineering Foreign Language	Survey, Research and Methodology
<b>PLANNING</b>				
			Economics Geography Engineering	Community and Regional Planning Economics Architecture Geography Survey, Research and Methodology
<b>PUBLIC MANAGEMENT AND ADMINISTRATION</b>				
			Actuarial Science Management Business Administration Economics Statistics	Public Administration Survey, Research and Methodology Actuarial Science Management Economics Statistics
<b>REGULATION</b>				
			Food Science and Technology International Business Economics Statistics	Survey, Research and Methodology Food Science and Technology Economics Statistics
<b>REVENUE AND TAXATION</b>				
			Accounting Economics Finance Actuarial Science Statistics	Accounting Economics Finance Actuarial Science Family Financial Planning Research and Methodology



# HEALTH SCIENCE

The Health Science Program of Study connects individuals to a large variety of health care areas that is characterized by diversity and changing technologies. This Program of Study allows students to investigate and observe a large variety of health care areas. Health Science careers include planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"> <li>-Technology Education, Spanish, Business Education, Art or</li> <li>-Band and Choir Combo</li> </ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"> <li>-<b>Math:</b> Applied Mathematics, Pre-Calculus, Calculus, Technical Math</li> <li>-<b>Social Studies:</b> Psychology, Sociology</li> <li>-<b>Science:</b> Anatomy &amp; Physiology, Advanced Chemistry</li> <li>-<b>Physical Education:</b> Personal Fitness</li> <li>-<b>Agriculture:</b> Food Science (ES)</li> </ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"> <li>-<b>English:</b> AP English</li> <li>-<b>Math:</b> AP Calculus</li> <li>-<b>Business:</b> AP Economics</li> </ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	Environmental Club
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# HEALTH SCIENCE

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>BIOTECHNOLOGY RESEARCH AND DEVELOPMENT</b>				
	Quality Assurance Technician Quality Control Technician	Clinical Laboratory Technician (CLT) Medical Laboratory Technician (MLT)	Biochemistry Immunology Medical Technology Microbiology Neuroscience	Anatomy Biochemistry Oncology Biology Virology Epidemiology
<b>DIAGNOSTIC SERVICES</b>				
Clinical Rotation	Electrocardiograph Technology Nuclear Medical Technology Radiology Technologist	Cardiovascular Technology Medical Laboratory Assisting Nuclear Medical Technology	Biology Medical Imaging Technology Medical Laboratory Science Nutrition	Cardiovascular Technology Diagnostic Radiology Medical Laboratory Science Nuclear Medicine
<b>HEALTH INFOMATICS</b>				
Coding Experience Data Entry Community Service	Health Records Technology Medical Assisting Medical Librarian Medical Transcription	Health Information Technology Medical Coding Medical Office Services	Community Health Health Care Administration Health Education	Health Care Administration Library Science Nursing Administration Public Health
<b>SUPPORT SERVICES</b>				
Central Services Assistant Dietary Manager Electrical/Electronic Equipment Repair	Dietary Management Electrical/Electronic Equipment Repair Medical Office Management	Dietary Management Medical Office Management Registered Dietary Technician	Biomedical Technology Environmental Health & Safety Prosthetic Therapies	Environmental Health Sciences Industrial/Operations Engineering Public Health
<b>THERAPEUTIC SERVICES</b>				
Clinical Rotation Dental Assisting Health Aide Medical Assistant	Certified Nurses Aide Dental Assisting Licensed Practical Nurse Massage Therapy	Dental Hygiene Licensed Practical Nursing Pre-Medicine Surgical Technology	Athletic/Training Exercise Science Dietetics Pre-Medicine Recreational Therapy	Clinical Nutrition Dentistry Medicine Nurse Anesthetist Pharmaceutical Services



# HOSPITALITY AND TOURISM

The Hospitality and Tourism Cluster prepares learners for careers in the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel-related services. Hospitality operations are located in communities throughout the world.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"> <li>-Technology Education, Spanish, Business Education, Art or</li> <li>-Band and Choir Combo</li> </ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"> <li>-<b>Math:</b> Applied Mathematics, Pre-Calculus, Calculus, Technical Math</li> <li>-<b>Social Studies:</b> Psychology, Sociology</li> <li>-<b>Physical Education:</b> Personal Fitness</li> <li>-<b>Business:</b> Business Communications</li> <li>-<b>World Languages:</b> Spanish 3 &amp; 4</li> <li>-<b>Agriculture:</b> Food Science (ES)</li> </ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"> <li>-<b>English:</b> AP English</li> <li>-<b>Math:</b> AP Calculus</li> <li>-<b>Business:</b> AP Economics</li> </ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	Spanish Club
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# HOSPITALITY AND TOURISM

## Career Types by Pathway

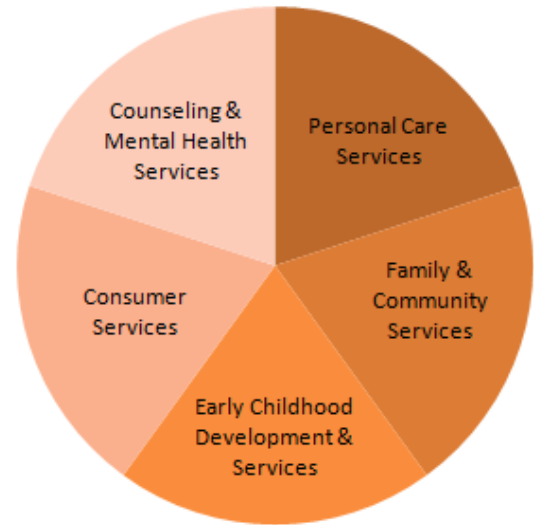
HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>LODGING</b>				
Bell Captain Guestroom Attendant Reservationist	Hotel Management	Hotel Management	Business Administration Lodging Management Sales and Marketing	
<b>RECREATION, AMUSEMENTS &amp; ATTRACTIONS</b>				
Museums/Zoo/Aquarium Docent Resort Instructor Theme Parks Retail Manager			Business Administration Management Recreation, Fitness and Leisure Studies Sports and Fitness Management	Business Administration
<b>RESTAURANT AND FOOD/BEVERAGE SERVICES</b>				
Cook Dishwasher Wait Staff	Culinary Arts and Management Dietary Management Food Services/Hospitality Food Service Management		Food Services/Hospitality Food Service Management Hospitality Management Restaurant and Food Service Administration Travel and Tourism	Restaurant and Food Service Administration
<b>TRAVEL AND TOURISM</b>				
Event Planner Ticket Agent Tour Guide Travel Agent	Business Administration Travel and Tourism	Business Administration Sales and Marketing Travel and Tourism	Business Administration Marketing Operations Marketing	Business Administration





# HUMAN SERVICES

This Program of Study prepares individuals for employment in career pathways related to families and human needs. This includes preparing individuals for employment in career pathways such as counseling and mental health services, family and community services, personal care, and consumer services.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"> <li>-Technology Education, Spanish, Business Education, Art or</li> <li>-Band and Choir Combo</li> </ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"> <li>-<b>Business:</b> Business Communications</li> <li>-<b>Social Studies:</b> Psychology, Sociology</li> <li>-<b>World Languages:</b> Spanish 3 &amp; 4</li> <li>-<b>Agriculture:</b> Food Science (ES)</li> <li>-<b>Physical Education:</b> Personal Fitness</li> </ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"> <li>-<b>English:</b> AP English</li> <li>-<b>Math:</b> AP Calculus</li> <li>-<b>Business:</b> AP Economics</li> </ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>EXPERIENTIAL LEARNING</b>	Service Learning tutoring hours with Elementary Classes
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# HUMAN SERVICES

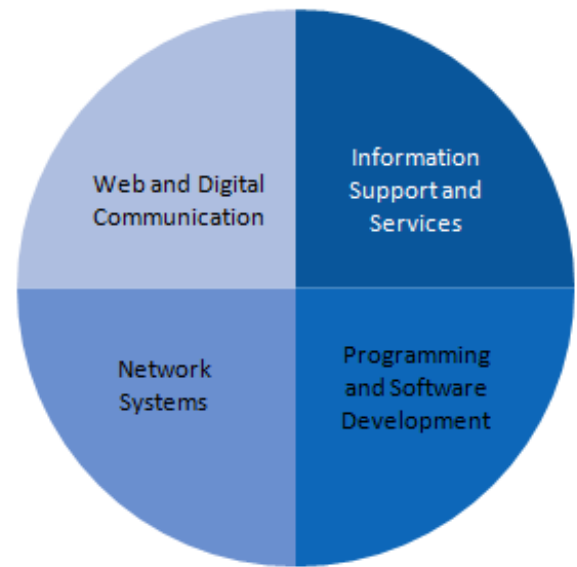
## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>CONSUMER SERVICES</b>				
Call Center Customer Service	Certified Financial Planner Wellness		Family Science Family Financial Management Human Services Business Administration	Family Science Human Services Business Administration
<b>COUNSELING &amp; MENTAL HEALTH SERVICE</b>				
		Human Services Chemical Dependency Counselor	Human Services Psychology Social Work Human and Social Services Administration	Marriage and Family Therapy Psychology Social Work Community Counseling
<b>EARLY CHILDHOOD DEVELOPMENT &amp; SERVICES</b>				
	Nanny Parenting	Early Childhood Education	Family Science Special Education and Communication Disorders	Child Development Early Childhood Education Special Education and Communication Disorders
<b>FAMILY &amp; COMMUNITY SERVICES</b>				
	Para-educator Family Life Specialist Spirituality Biblical Studies	Human Services Theology	Human Services Psychology Nutrition, Fitness and Health Promotion Gerontology Family Science Social Work	Family Science Psychology Social Work Human Services
<b>PERSONAL CARE SERVICES</b>				
	Barbering Cosmetology Nail Technology Esthetics Massage Therapy	Mortuary Science Cosmetology	Pre-Mortuary Sciences	



# INFORMATION TECHNOLOGY

The Information Technology/Computing Program of Study involves the design, development, support and management of hardware, software, multimedia and systems integration services. In addition to careers in the IT industry, IT careers are available in every sector of the economy – from Financial Services to Medical Services, Business to Engineering and Environmental Services. Anyone preparing for an IT career should have a solid grounding in math and science. There are obvious connections between Information Technology and other programs of study.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"><li>-Technology Education, Spanish, Business Education, Art or</li><li>-Band and Choir Combo</li></ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"><li>-<b>Math:</b> Applied Mathematics, Technical Math, Pre-Calculus</li><li>-<b>Computer Science:</b> Computer Applications, WEB 2.0</li><li>-<b>Science:</b> Physics</li><li>-<b>Art:</b> Digital Photography</li><li>-<b>Technology Education:</b> Robotics, Electromechanical Design and Development</li></ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"><li>-<b>English:</b> AP English</li><li>-<b>Math:</b> AP Calculus</li><li>-<b>Business:</b> AP Economics</li></ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	FBLA
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# INFORMATION TECHNOLOGY

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>INFORMATION SUPPORT AND SERVICES</b>				
Help Desk Assistant	Electronics Technology Information Technology Microsoft Certified Database Administrator Microsoft Office Specialist Oracle Certified Professional Cyber Security Specialist Information Security Engineer	Helpdesk/Microcomputer Support Information Technology Computer Information Systems Database Support Technical Support	Computer Information Systems Management Information Systems Mass Communication/ Media Studies Web/Multimedia Management	Computer Information Systems Computer Science Management Information Systems
<b>NETWORK SYSTEMS</b>				
	Cisco Training Electronics Technology Information Technology Network Engineer Technical Support Specialist Technology Solution Engineer	Computer and Information Sciences Computer Technology Electronics Technology Information Technology Networking Technology	Computer Science Computer Engineering Computer Systems Analysis Management Information Systems Telecommunications Management	Computer Science Computer Engineering Information Technology Telecommunications Engineering
<b>PROGRAMMING AND SOFTWARE DEVELOPMENT</b>				
App Developer	Information Technology Computer Programming	Computer Programming Computer Programming Technology Computer Technology Information Technology	Computer Information Systems Computer Programming Computer Software Engineering Computer Science Management Info Systems	Computer Programming Computer Science Information Resources Management Information Technology System Administration
<b>WEB AND DIGITAL COMMUNICATION</b>				
Web Designer	Animation Information Technology Multimedia Certified Professional Webmaster	Electronic Imaging Information Technology Interactive Media Media Arts Web Development and Support	Commercial Art Computer and Information Sciences Design and Visual Communication Multimedia Communication	Computer Science



## LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

The Law, Public Safety and Security Cluster helps prepare students for careers in planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.



### Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"><li>-Technology Education, Spanish, Business Education, Art or Band and Choir Combo</li></ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"><li>-<b>Math:</b> Applied Mathematics, Pre-Calculus, Calculus, Technical Math</li><li>-<b>Social Studies:</b> Psychology, Sociology, Current Events</li><li>-<b>Science:</b> Anatomy &amp; Physiology</li><li>-<b>Physical Education:</b> Personal Fitness</li><li>-<b>World Language:</b> Spanish 3 &amp; 4</li></ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"><li>-<b>English:</b> AP English</li><li>-<b>Math:</b> AP Calculus</li><li>-<b>Business:</b> AP Economics</li></ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	SADD
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>CORRECTION SERVICES</b>				
Correctional Officer Security Officer	Criminal Justice	Criminal Justice Correctional Option Parole Option Probations Option	Human Services Criminal Justice Social Work Pre-Law	Law and Legal Services Criminal Justice
<b>EMERGENCY AND FIRE MANAGEMENT SERVICES</b>				
Police, Fire and Ambulance Dispatch Volunteer Fire Fighting	Emergency Medical Technician (EMT) Emergency Management Fire Science Technology Hazardous Materials Technician	Emergency Medical Technician (EMT) Fire Protection Fire Science Technology	Emergency Medical Services	
<b>LAW ENFORCEMENT SERVICES</b>				
Animal Control Parking Enforcement	Criminal Justice	Criminal Justice Law Enforcement	Criminal Justice	Criminal Justice
<b>LEGAL SERVICES</b>				
	Paralegal Studies	Administrative Assistant – Legal Paralegal/Legal Assistant Criminal Justice – Court Emphasis	Paralegal Studies Pre-Law/Legal Studies Criminal Justice	Law and Legal Studies Criminal Justice
<b>SECURITY AND PROTECTIVE SERVICES</b>				
		Criminal Justice – Law Enforcement Law Enforcement	Criminal Justice Law and Legal Studies	Criminal Justice



# MANUFACTURING

The Manufacturing Program of Study focuses on planning, managing and performing the processing of materials into intermediate for final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering. There are obvious connections between manufacturing and other programs of study.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"><li>-Technology Education, Spanish, Business Education, Art or</li><li>-Band and Choir Combo</li></ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"><li>-<b>Math:</b> Applied Mathematics, Pre-Calculus, Calculus, Technical Math</li><li>-<b>Science:</b> Physics</li><li>-<b>Technology Education:</b> Intro to Engineering and Design, Engineering Physics, Modern Manufacturing, Electromechanical Design and Development, Architectural Drafting and Design</li></ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"><li>-<b>English:</b> AP English</li><li>-<b>Math:</b> AP Calculus</li><li>-<b>Business:</b> AP Economics</li></ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>EXPERIENTIAL LEARNING</b>	Youth Apprenticeship, Industry Certifications
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# MANUFACTURING

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>HEALTH, SAFETY AND ENVIRONMENTAL ASSURANCE</b>				
	Occupational Safety and Health	Environmental Engineering Technology Environmental Studies Occupational Safety and Health	Environmental Engineering Environmental Studies Occupational Safety and Health	Environmental Biology Environmental Studies Occupational Safety and Health
<b>LOGISTICS AND INVENTORY CONTROL</b>				
Heavy Equipment Operation Industrial Truck and Tractor Operation Material Handling	Truck Driving	Logistics and Materials Management Industrial Truck and Tractor Operation Transportation, Distribution and Logistics	Logistics and Materials Management Industrial Truck and Tractor Operation Transportation, Distribution and Logistics	Logistics and Materials Management
<b>MAINTENANCE, INSTALLATION AND REPAIR</b>				
Business Machine Technology Custodial Services Electronics Technology	Computer Installation and Repair Electronics Technology Industrial Mechanics	Diesel Technology Manufacturing Technology Mechanical Engineering Technology	Biomedical Technology Manufacturing Technology Mechanical Engineering Technology	
<b>MANUFACTURING PRODUCTION PROCESS DEVELOPMENT</b>				
Construction Trades	Construction Trades	Architectural Engineering Technology Automotive Engineering Technology Drafting & Design Technology	Architectural Engineering Civil Engineering Computer Engineering	Architecture Civil Engineering Construction Management and Inspection Transportation and Highway Engineering
<b>PRODUCTION</b>				
Iron Working Precision Production Upholstering and Leather Working Woodworking	Iron Working Precision Production Upholstering and Leather Working Welding	Building Construction Electrical and Electronics Engineering Technology Iron Working	Computational Mathematics Electrical and Electronics Engineering Technology Operations Management	Computational Mathematics Operations Management
<b>QUALITY ASSURANCE</b>				
	Quality Control Technology	Occupational Safety and Health Quality Control Technology	Occupational Safety and Health Quality Control Technology	Occupational Safety and Health





# MARKETING

This Program of Study prepares learners for careers in planning, managing and performing marketing activities to reach organizational objectives. These include areas such as brand management, professional sales, merchandising, marketing communications and market research.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"><li>-Technology Education, Spanish, Business Education, Art or</li><li>-Band and Choir Combo</li></ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"><li>-<b>English:</b> Business Communications</li><li>-<b>Social Studies:</b> Sociology</li><li>-<b>Business:</b> Taking Care of Business, Virtual Business</li></ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"><li>-<b>English:</b> AP English</li><li>-<b>Math:</b> AP Calculus</li><li>-<b>Business:</b> AP Economics</li></ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	FBLA
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# MARKETING

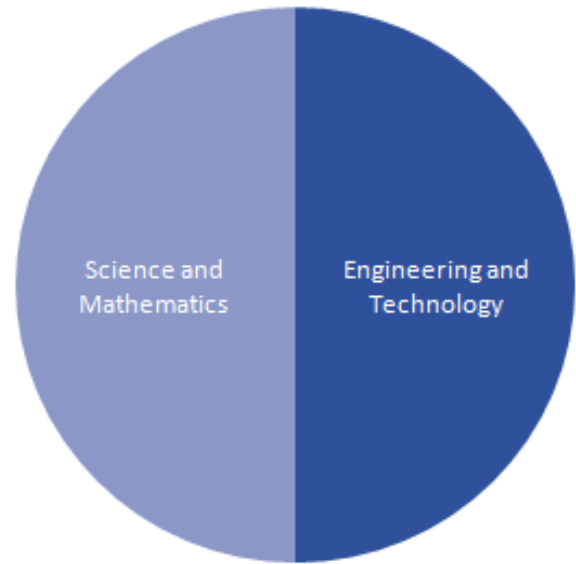
## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>MARKETING COMMUNICATIONS</b>				
	Practitioners Public Relations Public Relations Society of America	Business Marketing Small Business Management	Business Administration Communication Management Marketing Public Relations	Master of Business Administration Matter of Marketing
<b>MARKETING MANAGEMENT</b>				
Industry and Trade Association Programs Conferences Seminars		Business Administration Entrepreneurship Management Marketing Small Business Management	Business Administration Management Marketing	Master of Business Administration Matter of Marketing
<b>MARKETING RESEARCH</b>				
	Product Vendors Professional and Technical Organizations Software Firms	Business Continued Education for Rapid Technological Advances Marketing	Business Administration Economics Information Science Information Systems Management Marketing	Master of Business Administration Matter of Marketing
<b>MERCHANDISING</b>				
		Business Business Administration Marketing Merchandising Sales Customer Service Small Business Management	Business Administration Management	Master of Business Administration
<b>PROFESSIONAL SELLING</b>				
	Management	Business Business Administration Customer Service Marketing Retail Management Sales Small Business Management	Business Administration Management Marketing	Master of Business Administration Matter of Marketing



## STEM (SCIENCE, TECHNOLOGY, ENGINEERING & MATH)

This Program of Study prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs.



### Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p><b>MIDDLE SCHOOL EXPLORATORY COURSES:</b></p> <ul style="list-style-type: none"> <li>-Technology Education, Spanish, Business Education, Art or Band and Choir Combo</li> </ul> <p><b>POTOSI SCHOOL DISTRICT 9-12 COURSES:</b></p> <ul style="list-style-type: none"> <li>-<b>Math:</b> Pre-Calculus, Calculus</li> <li>-<b>Science:</b> Physics, Advanced Chemistry, Anatomy &amp; Physiology</li> <li>-<b>Technology Education:</b> Intro to Engineering and Design, Engineering Physics, Electromechanical Design and Development, Construction Systems</li> </ul> <p><b>COLLEGE EXPERIENCES AVAILABLE AT PHS:</b></p> <ul style="list-style-type: none"> <li>-<b>English:</b> AP English</li> <li>-<b>Math:</b> AP Calculus</li> <li>-<b>Business:</b> AP Economics</li> </ul> <p><b>NOTE:</b> Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p><small>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</small></p>
<b>STUDENT ORGANIZATIONS</b>	Environmental Club
<b>INDUSTRY CERTIFICATIONS</b>	N/A



## STEM (SCIENCE, TECHNOLOGY, ENGINEERING & MATH)

### Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>ENGINEERING &amp; TECHNOLOGY</b>				
		Biology Chemistry Laboratory Science Technology Medical Laboratory Technology	Chemistry Economics Mathematics Molecular Biology Physics	Biochemistry Biological Sciences Chemistry Physics and Astronomy Statistics
<b>SCIENCE &amp; MATH</b>				
	Industrial Technology	Architectural Design Technology Civil Engineering Technology Industrial Technology Surveying and Computer Aided Drafting (CAD)	Agricultural Engineering Biological Systems Engineering Chemical Engineering Construction Engineering Technology Industrial Engineering	Agricultural and Biological Systems Architectural Engineering Chemical Engineering Civil Engineering Mechanical Engineering



# TRANSPORTATION, DISTRIBUTION & LOGISTICS

This Program of Study exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities.



## Suggested Learning Experiences

<b>ACADEMIC, CAREER, AND TECHNICAL CORE</b>	Students are encouraged to select courses that allow them to work towards college level English, Math, and Science. All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. Specific course selections are based on alignment to personal, academic, social and career goals.
<b>RECOMMENDED COURSES</b>	<p>MIDDLE SCHOOL EXPLORATORY COURSES:</p> <ul style="list-style-type: none"><li>-Technology Education, Spanish, Business Education, Art or</li><li>-Band and Choir Combo</li></ul> <p>POTOSI SCHOOL DISTRICT 9-12 COURSES:</p> <ul style="list-style-type: none"><li>-<b>Computer Science:</b> Business Communication</li><li>-<b>Science:</b> Physics, Environmental Science &amp; Biological Techniques</li><li>-<b>Agriculture:</b> Environmental Science (ES)</li></ul> <p>COLLEGE EXPERIENCES AVAILABLE AT PHS:</p> <ul style="list-style-type: none"><li>-<b>English:</b> AP English</li><li>-<b>Math:</b> AP Calculus</li><li>-<b>Business:</b> AP Economics</li></ul> <p>NOTE: Start College Now can also be leveraged to take additional post-secondary coursework based on your Academic and Career Plan.</p> <p>*Students are encouraged to consider electives from multiple Programs of Study to support personal, academic, social and career goals.</p>
<b>EXPERIENTIAL LEARNING</b>	Youth Apprenticeship, Industry Certification
<b>INDUSTRY CERTIFICATIONS</b>	N/A



# TRANSPORTATION, DISTRIBUTION & LOGISTICS

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE DEGREE	BACHELOR DEGREE	MASTER/DOCTORAL PROFESSIONAL DEGREE
<b>FACILITY &amp; MOBILE EQUIPMENT MAINTENANCE</b>				
Auto Body Repair Automotive and Diesel Technology	Auto Body Repair Auto Mechanics Aviation Airframe Maintenance Industrial Maintenance Electronics	Aeronautical & Aerospace Engineering Technology Automotive Technology Aviation Airframe Maintenance Electronic Technology	Engineering Industrial Engineering Mechanical Engineering	Industrial & Management Systems Engineering Mechanical Engineering
<b>HEALTH, SAFETY &amp; ENVIRONMENTAL MANAGEMENT</b>				
		Environmental Engineering Technology	Engineering Physics Environmental Engineer Environmental Science Environmental Studies Industrial Engineering	Environmental Engineering Environmental Science Environmental Studies
<b>LOGISTICS PLANNING &amp; MANAGEMENT SERVICES</b>				
	Business	Business Administration Industrial Technology Logistics and Materials Management	Business Administration Industrial Distribution Industrial Technology Management Technology Operations Management Logistics and Material Management	Engineering Management Industrial and Management Systems Engineering Operations Management
<b>SALES AND SERVICE</b>				
Cashier Customer Service Travel Agent	Desktop Publishing Entrepreneurship Parts, Sales and Management Travel Services	Business Marketing Marketing Management Parts, Sales and Management	Advertising Business Marketing	Advertising Business Marketing
<b>TRANSPORTATION OPERATIONS</b>				
Taxi Driving Locomotive Engineering Bus Driving Truck Driving	Air Traffic Control CDL Driver Training Commercial Pilot Flight Crew Training Vehicle and Equipment Operations	Air Traffic Control Commercial Pilot Flight Crew Training	Air Traffic Control	
<b>TRANSPORTATION SYSTEMS, INFRASTRUCTURE, PLANNING, MANAGEMENT &amp; REGULATION</b>				
		Civil Engineering Surveying and CAD	Aviation Systems Management Civil Engineering Maritime Studies Naval Architecture and Marine Engineering	Civil Engineering Engineering Management Naval Architecture and Marine Engineering
<b>WAREHOUSING &amp; DISTRIBUTION CENTER OPERATIONS</b>				
Shipping and Receiving Storage and Distribution	CDL Driver Training Forklift Training	Business Logistics and Materials Management Warehouse Management	Business Logistics and Materials Management	Logistics and Material Management