



8P140 Automotive Basics (R)

1 credit

Gr: 9-12

Prerequisite: None

Description: (SGHS only) Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics [I], students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

8P200 Automotive Technology I: Maintenance and Light Repair (R)

2 credits

Gr: 10-12

Prerequisite: Principles of Transportation, Distribution, and Logistics

Description: (SGHS only) Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

8P300 Automotive Technology II: Automotive Service (R)

2 credits

Gr: 11-12

Prerequisite: Automotive Technology I

Description: (SGHS only) Automotive Technology II includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

8P130 Basic Collision Repair and Refinishing (R)

1 credit

Gr: 9-12

Prerequisite: None

Description: (SGHS only) Basic Collision Repair and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.

8P230 Collision Repair (R)

2 credits

Gr: 10-12

Prerequisite: Recommended prerequisite: Basic Collision Repair and Refinishing

Description: (SGHS only) Collision Repair includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing

8P960 Distribution and Logistics

1 credit

Gr: 11-12



Prerequisite: Principles of Transportation, Distribution, and Logistics

Description: Distribution and Logistics is designed to provide training for entry-level employment in supply chain management. Logistics Management is critical for a company to function. Logistics plays a key role in fulfilling customer demands, ordering and managing inventory, controlling inbound and outbound shipments, reducing costs, saving time and meeting the company's needs. To prepare for success, students will learn, reinforce, experience, apply, and transfer their knowledge and skills related to distribution and logistics.

NOTE: All courses may not be offered on every campus.
2019-2020 Course Guide

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**8P910 Energy, Power, and Transportation Systems (R) (Spring)****1 credit****Gr: 11-12****Prerequisite:** Fall class in Small Engine Technology I – Outdoor Power I

Description: The businesses and industries of the Transportation, Distribution, and Logistics cluster are rapidly expanding to provide new career opportunities. Students will need to understand the interaction between various vehicle systems, the logistics used to move goods and services to consumers, and the components of transportation infrastructure. Performance requirements will include academic and technical skills. Students prepared to meet the expectations of employers in this industry must be able to interact and relate to others and understand the technologies used in order to provide products and services in a timely manner. The increasing demand for employees will provide growth potential.

8P950 Management Transportation Systems - Logistics**1 credit****Gr: 11-12****Prerequisite:** Principles of Transportation, Distribution, and Logistics

Description: In Management of Transportation Systems, students will gain knowledge and skills in material handling and distribution and proper application, design, and production of technology as it relates to the transportation industries. This course includes the safe operation of tractor-trailers, forklifts, and related heavy equipment. This course will allow students to reinforce, apply, and transfer their academic knowledge and skills to management of transportation systems and associated careers.

8P340 Paint and Refinishing (R)**2 credits****Gr: 11-12****Prerequisite:** Basic Collision Repair and Refinishing or Collision Repair

Description: (SGHS only) Paint and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to automotive paint and refinishing.

8P350 Practicum in Transportations Systems - Collision I (R)**2 Credit****Gr: 11-12****Prerequisite:** Four Credits in the Collision Repair & Refinishing courses, or Four Credits in the Automotive Technology courses.

Description: [SGHS only] the program is designed for students desiring training for careers in the various transportation, distribution and, or logistics occupations by combining approved work experiences with related classroom studies. Opportunities in leadership, citizenship, job application and interview, human relations, safety, personal money management, and the basics of operating one's own business are also included.

8P360 Practicum in Transportations Systems – Automotive / Extended (R) 3 Credits**Gr: 12****Prerequisite:** Four Credits in the Collision Repair & Refinishing courses, or Four Credits in the Automotive Technology courses.

Description: [SGHS only] Practicum in Transportation Systems is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.

8P930 Practicum in Transportation Systems - Outdoor Power**2 credit****Gr: 11-12****R. Prerequisite:** Small Engine Technology II - Outdoor Power II

Description: In Management of Transportation Systems, students will gain knowledge and skills in material handling and distribution and proper application, design, and production of technology as it relates to the transportation industries. This course includes the safe operation of tractor-trailers, forklifts, and related heavy equipment. This course will allow students to reinforce, apply, and transfer their academic knowledge and skills to management of transportation systems and associated careers.

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8P933 Practicum in Transportation Systems - Outdoor Power/Extended 3 credit Gr: 11-12



Prerequisite: Small Engine Technology II - Outdoor Power II

Description: In Management of Transportation Systems, students will gain knowledge and skills in material handling and distribution and proper application, design, and production of technology as it relates to the transportation industries. This course includes the safe operation of tractor-trailers, forklifts, and related heavy equipment. This course will allow students to reinforce, apply, and transfer their academic knowledge and skills to management of transportation systems and associated careers.

8P970 Practicum in Distribution and Logistics 2 credit Gr: 11-12



Prerequisite: Principles of Transportation, Distribution, and Logistics

Description: Practicum in Distribution and Logistics is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or work based.

8P973 Practicum in Distribution and Logistics/Extended 3 credit Gr: 11-12



Prerequisite: Principles of Transportation, Distribution, and Logistics

Description: Practicum in Distribution and Logistics is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or work based.

8P120 Principles of Distribution and Logistics (R) 1 credit Gr: 9-12

Prerequisite: None

Description: In Principles of Distribution and Logistics, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to distribution and logistics industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

8P100 Principles of Transportation Systems (R) 1 credit Gr: 9-12

Prerequisite: None

Description: In Principles of Transportation Systems, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

8P900 Small Engine Technology I - Outdoor Power I (R) (Fall) 1 credits Gr: 11-12



Prerequisite: None

Description: Small Engine Technology I - Outdoor Power I includes knowledge of the function and maintenance [diagnosis, and service] of the systems and components of all types of small engines such as outdoor power equipment, [lawn mowers,] motorcycles, ATV's, generators, and irrigation engines. This course is designed to provide training for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems [and small engine overhauls]. In addition, the student will receive instruction in safety, academic, and leadership skills as well as career opportunities.

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High School Course Guide



Transportation,
Distribution
& Logistics

8P920 Small Engine Technology II - Outdoor Power II (R)

2 credits

Gr: 11-12



Prerequisite: Small Engine Technology I - Outdoor Power I

Description: Small Engine Technology II - Outdoor Power II includes advanced knowledge of the function, diagnosis, and service of the systems and components of all types of small engines such as outdoor power equipment, motorcycles, ATV's, generators, and irrigation engines. This course is designed to provide hands-on and practical application for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems and small engine overhauls. In addition, students will receive instruction in safety, academic, and leadership skills as well as career

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