



HILLYARD

TECHNICAL CENTER

3434 Faraon Street
St Joseph MO 64506
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www.hillyardtech.com
St. Joseph Public Schools

HIGH SCHOOL PROGRAMS

Automobile Service Technology

This program covers the areas of ASE testing, which are engine performance, engine rebuild, suspension, brakes, heating and air conditioning, automatic transmissions, standard transmissions and drive axles and electrical systems. Students receive hands-on training and classroom instruction.

Carpentry

This course is designed to train students for entry-level positions in the construction industry. Students participate in classroom and shop work. Students will also build a house as a class project.

Collision Repair and Refinish

Students receive training for entry into the body shop trade or related industries. Our program includes body parts repair/replacement as well as paint refinishing and matching techniques. Skills offered include MIG welding, measuring (unibody and frame), steering and suspension geometry, electrical/mechanical operations and damage analysis from shop management positions.

Computer Aided Drafting Technology (CAD)

The students will do 80% of their drawings using the latest version of AutoCAD and 20% board drafting. They will be working through assigned problems in several areas. The two main areas covered are machine drafting and architectural drafting. Students will also use several other software packages.

Computer Service Technology

Students are provided the skills to become an entry-level service technician for the computer industry. Students receive a strong foundation in hardware and operating systems in the areas of repair and maintenance, installing software, and providing network support for computer system users. Completion of this program can lead to certification in A+ and/or C-Tech. Also, Photoshop CS# offers an introduction to image editing.

Electronics Technology

Electronics is the use and practice of electronics from basic to advance circuitry. The student will learn about resistance, AC/DC voltage, and semi-conductors with real hands-on

experience in our up-to-date lab. Advanced students will study digital logic and microprocessor controls that include the study of robotics and programmable logic control (PLC).

Health Service Assistant

This course is for students interested in entry level employment and/or post-secondary education in the health care field. The program is designed for a one or two year program for high school students. The first year concentrates on a core curriculum applicable to all health care fields along with career exploration. The second year is designed to focus and provide further study on a specific medical field of your choice with opportunities for early placement towards the end of the second year. The second year provides the students with the opportunity to receive certification in their area including the State Certification for Nurses Aids, if applicable.

FireFighter I & II

This course is organized to provide the students with the knowledge and basic skills in firefighting, to respond first at the scene of an accident or disaster, and to follow procedures to provide safety for themselves and the public when confronted with a hazardous material situation. *Fire Science includes both Firefighter I & II and EMT- Basic.*

Emergency Medical Technician (EMT – Basic)

This class includes instruction for becoming an Emergency Medical Technician-Basic. Students in this program will learn through a combination of classroom and hands-on experiences. Students will assess simulated patients involved in trauma and medical accidents; learn CPR and how to manage during other medical emergencies. Successful graduates are eligible to take the National Registry of EMT's examination.

HVACR (Heating, Ventilation, Air Conditioning and Refrigeration)

This course includes basic electricity with applications of wiring, wiring diagrams, use of electric meters, and testing controls. The following are integrated into all shop activities: basic mechanical cycle is taught parallel with tubing operations, brazing, soldering and trouble-shooting systems.

Medical Transcription

This program is a planned sequence of instruction in the areas of Anatomy and Physiology, Human Diseases and Surgical Procedures, Laboratory Procedures, Medical Science, Medical Terminology, Medical Transcription Practice, Pharmacology, and Professionalism and Medicolegal Issues. This comprehensive program offers training in the skills required to be employable in all facets of Medical Transcription/Billing & Coding.

Precision Machine Technology

Students enrolled in this program are taught to use precision measuring tools and machine tools such as lathes, mills, drill presses and grinders for manufacturing various machine parts from solid metal stock. In addition, students learn to program a variety of CNC machines as well as write code.

Welding Technology

This course is designed to provide the participants with entry-level job skills in the following welding processes: oxy-acetylene welding and cutting, arc welding (stick), wire feed welding (MIG), and heliarc (TIG). Also covered in the program is blueprint reading and advanced welding and cutting techniques.

The following courses are available to students residing in the Saint Joseph School District only.

CASE

Curriculum for Agricultural Science Education

CASE Intro to AFNR (9), Principles of Plant Science (10), & Principles of Animal Science (10)

- Hands on laboratory activities teaching about agriculture.
- CASE Intro to AFNR is a 1st year course to introduce students to Agriculture and basic plant and animal structures.
- Principles of Animal Science is the 2nd level course for those students interested in animals
- Principles of Plant Science is the 2nd level course for those students interested in plants
- *CASE Intro to AFNR is a prerequisite for either Principles of Plant Science or Principles of Animal Science

*CASE Plant and Animal Bio-Tech (11-12)

- Very detailed hands on labs for plant or animal
- More of an independent study style of lab work
- *Prerequisite is CASE Intro to AFNR and Principles of Plant Science or Principles of Animal Science



*Advanced Plant Science (11-12)

- Study of Agronomy, Forestry, Greenhouse, Landscape, Nursery, Floral Design, and Horticulture
- *Prerequisite is Intro to AFNR and Principles of Plant Science

*Veterinary Technology (11-12)

- Animal-oriented course including animal structures, animal species comparison, proper animal handling techniques, proper interaction with patients' owners, proper client confidentiality, proper handling for bodily fluids and spills.
- *Prerequisite is CASE Intro to AFNR and Principles of Animal Science

*Agribusiness Sales & Marketing Management (11-12)

- Sales, marketing, business, economics course designed to have an agricultural focus
- *Prerequisite is CASE Intro to AFNR (Designed for Junior level ideally)

"Hillyard Technical Center is required by Title VI, Title IX and Section 504 not to discriminate on the basis of sex, race, color, creed, age, handicap or national origin in its educational activities. Anyone having inquiries relating to the above regulations is directed to contact Associate Superintendent of Personnel or Director of Special Services, 925 Felix Street, St. Joseph, Missouri (Phone 816.671.4000). These administrators have been designated to coordinate the efforts of the School District of St. Joseph to comply with the Title IX, Title IV and Section 504 guidelines."