

# Vocational-Technical Education

**Vocational-technical education is a privilege for students at Fremont High School who display adequate attendance and a satisfactory academic record.** Through technical training, students can attain the necessary skills for employment and/or prepare for further education at a trade school, community college, or four-year university.

All vocational programs are block time programs and the students must be able to budget his /her time to be in one of these programs. Programs are either two or three hours long. **Most of the programs are a FULL YEAR IN LENGTH and students accepted into the program must agree he/she will remain in the program for its entirety.** Students in vocational programs are not allowed to have a study hall unless their program demands one for travel purposes. They also may not be staff assistants.

All vocational programs require an application. **ALL APPLICATIONS MUST BE TURNED IN ON TIME FOR A STUDENT TO BE CONSIDERED FOR THAT VOCATIONAL PROGRAM.** Students who are juniors and seniors in good-standing may apply for several vocational programs offered at Fremont High School, Four County Area Vocational Center (Kendallville), or Branch Area Career Center (Coldwater). Students are responsible for providing their own transportation and must complete a release of liability form before the first day of attendance.

## **VOCATIONAL PROGRAMS OFFERED AT FREMONT HIGH SCHOOL:**

### **BUILDING TRADES TECHNOLOGY, 0711-0712**

Grades 11-12

4 Quarters- **Directed Elective, Flex Credit, Career Academic Sequence**

**Prerequisite: Construction Processes**

Building Trades Technology includes classroom and laboratory experiences concerned with the erection, installation, maintenance, and repair of buildings, homes, and other structures using assorted materials such as metal, wood, stone, brick, glass, concrete, of composition substances.

Instruction covers a variety of activities such as cost estimating; cutting, fitting, fastening, and finishing various materials; the uses of a variety of hand and power tools; and blueprint reading and following technical specifications. Knowledge concerning the physical properties of materials should also be emphasized. Instruction in plastering, masonry, tile setting, dry wall installation, plumbing, residential wiring and roofing should be covered in the course of study. Additional areas of instruction can include operation and maintenance of heavy equipment used in the construction industry and processes used for digging, grading, clearing, and excavating. Students will develop accurate and precise measuring skills and an advanced understanding of volume and area calculations as well as the advanced mathematical skills required for construction of rafters, stair stringers, and complex angles. Estimation skills will be strengthened through activities such as ordering of materials and planning construction jobs. Scientific principles will be reinforced through weight load exercises, span length determinations, and the study of relative strength. Reading skills as well as oral and written communication skills will also be emphasized to ensure students' abilities to accurately interpret instructions and provide information to customers and colleagues. **PROSPECTIVE STUDENTS WILL BE INTERVIEWED BEFORE BEING ACCEPTED INTO THE PROGRAM.**

### **AUTOMOTIVE SERVICES TECHNOLOGY, 0701-0702**

Grades 11-12

4 Quarters- **Directed Elective, Flex Credit, Career Academic Sequence**

**PROSPECTIVE STUDENTS WILL BE INTERVIEWED BEFORE BEING ALLOWED INTO THE PROGRAM. PREFERENCE WILL BE GIVEN TO THOSE STUDENTS WHO HAVE PASSED REQUIRED COURSES.**

Automotive Services Technology includes classroom and laboratory experiences that incorporate training in service and repair work on all types of automotive vehicles. Included in the course is training in the use of service/repair information and a variety of hand and power tools. Instruction and practice provides opportunities for students to diagnose malfunctions, disassemble units, perform parts inspections, and repair and replace parts. Course content should address NATEF/ASE standards leading to certification in one or more of the following areas: steering and suspension; brakes; engine performance; manual transmissions and differential; automatic transmissions; electrical systems, air conditioning; and, engine repair. Mathematical skills will be reinforced through precision measuring

activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solids. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

### **HEALTH CAREERS, 0730-0731**

Grade 12

#### **4 Quarters- Directed Elective, Flex Credit, Career Academic Sequence**

Students attend class 8-11:30 five days per week for the first seven weeks and study the following topics: Community Health and Facilities, Legal and Ethical Issues, Role of the Nurse's Aide (bathing, feeding, ADDLE assisting), Anatomy and Physiology, First Aide, Infection Control, and Care of the Elderly. The students all master taking vital signs.

For the next 31 weeks, the students' activities in the class are reduced to four hours a week and rotations begin for eleven hours per week through the following locations: Long Term Care Facility, Veterinary Hospital, Dental office, Sheltered Workshop, and our Community Hospital. While on hospital rotations, they shadow and participate in over 350 hours of clinical experience. Pharmacy, radiology, labor and delivery, laboratory services, medical-surgical unit, home health, physical therapy, cardiac rehabilitation, emergency room, respiratory therapy, and the EMS are more of the clinical rotations where students learn first-hand about the many careers pertinent to each area. Staff nurses and department heads are involved weekly with student evaluations of their performance. Through these evaluations, the students learn quickly how to be a successful employee according to real work site expectations.

Also stressed in the program is college preparation, organizational skills, study skills, and what kind of education each health-related career demands.