

# Eaton Intermediate School District (EISD)

Eaton Intermediate School District offers the following courses for our students. If there is additional interest in courses not identified here, please see your counselor. Each class is year-long and replaces 2 classes each trimester and Seminar.

Enrollment for the following courses includes a field trip to Lansing Community College. Students meeting academic and attendance standards in courses at L.C.C. may also receive college credit. Transportation for these classes is the responsibility of the student/parent.

## HEAVY EQUIPMENT OPERATOR

### Course Location: AIS Construction Equipment Company

Learn skills for your lifetime! This program provides students with an orientation to the heavy equipment industry including heavy equipment safety, equipment maintenance and basic operation techniques. Included will be the techniques of underground construction including grades, below grade construction, and earth moving. Also covered is how to lay pipe and cable including the different kinds of soils and processes used in different kinds of construction. This can be Part Two of a two-year program. If college level work is attained, students may earn up to 8 articulated LCC credits after two years.

Student learning outcomes include but are not limited to:

- Orientation to the trade
- Heavy equipment safety
- Identification of heavy equipment
- National Center for Construction Education and Research  
Entry level Certification in: Excavator, Front End Loader,  
Bulldozer, Forklift, and Backhoe
- Below grade construction
- Earthmoving methods
- Soil compaction
- Introduction to Grades including:  
Site Preparation  
Site Grading Plans Overview and layout

## HEAVY EQUIPMENT REPAIR

### Course Location: AIS Construction Equipment Company

Learn skills for your lifetime! Classroom and hands on repair of construction and farm equipment. This is a unique opportunity for you to be trained at AIS Construction Company, a state-wide heavy equipment dealer. Tasks and skills learned will include operating a diesel engine; perform common repairs on modern diesel engines including routine maintenance according to industry guidelines; basic electricity; fundamentals of hydraulics including tearing down and assembling hydraulic components and cylinders; heavy equipment power trains; disassembling and reassembling transmissions and axle assemblies; applying all course content to the latest technology coming in from construction and farm equipment manufacturers. Part One of a two-year program. If college level work is attained, students may earn up to 8 articulated LCC credits after two years.

Student learning outcomes include but are not limited to:

- Basic shop principles
- Diesel engines
- Basic electrical
- Equipment powertrain
- Basic equipment hydraulics
- Welding