

APPLIED ARTS

- Course descriptions that are shaded are not being offered.
- Students are required to take one credit in the Visual, Performing, and/or Applied Arts.
- Architectural Drawing, Engineering, Woods, and Furniture Design/Construction may serve as math related courses if taken during the student's senior year.

Architectural Drawing

2 trimesters

Grade Level: 9 – 12

Course # 7601
7602

Prerequisite: None

This is an architectural drafting course with major emphasis on using AutoCAD. Students will learn the fundamentals of residential design, including both single family and multi-family designs. Instruction will also be provided in how to figure structural loads, cost estimates, materials required, and financing. In addition, students will learn how to build 3-D models, draw plans expectable for building permits, and client presentations.

Engineering

2 trimesters

Grade Level: 9 – 12

Course # 7603
7604

Prerequisite: None

This course covers the basic principles of drafting: mechanical drawing, engineering graphics, computer-aided drafting and design (CADD), with an introduction to architecture. Emphasis is put on techniques of drafting, technical processes, hands on projects, problem solving, and drafting applications. Areas covered are size and shape description, pictorial, assembly, detail, specialized drafting and CADD. This course is helpful for students interested in engineering and CADD.

Furniture Design and Construction

1 trimester

Grade Level: 9 – 12

Course # 7608

Prerequisite: Woodworking

This advanced woodworking class is for the serious woodworking student who wants to gain knowledge in cabinet making, furniture construction, and construction using the latest in woodworking technologies. The student will be exposed to advanced machine operation, special joint construction and finishing techniques. Students will use problem solving activities and will need a creative aptitude to design and build advanced wood projects. The successful completion of this course will give the student basic career entry-level skills in construction and cabinet making. Materials for this course will be provided by the Mason Public School District. Projects made as a requirement of this course will become the property of the Mason Public School District. However, students wishing to keep their projects may purchase them all for an amount to be determined based on the extent of the projects chosen by the student.

Woodworking

1 trimester

Grade Level: 9 – 12

Course # 7607

Prerequisite: None

The student will explore the nature of wood, design and build crafts while gaining a basic understanding of woodworking construction. Students will develop both an insight into and understanding of woodworking tools, materials, machines, and processes of the woodworking industry. Students will be encouraged to design and build personal projects that will use the latest in wood technique. Also covered in the course will be the theory of proper wood strength testing, glued wood joints, wood finishing, wood joinery, and wood fasteners. Materials for this course will be provided by the Mason Public School District. Projects made as a requirement of this course will become the property of the Mason Public School District. However, students wishing to keep their projects may purchase them all for an amount to be determined based on the extent of the projects chosen by the student.