

Airport High School
11330 Grafton Rd
Carleton, MI 48117
734-654-6208

Course Name: Architectural Drafting & CAD

Course Number: 810AT and 812AT

Course Credit: 2 credits per year

School Year: 2008-09 School Year

Instructor: Mr. Vontroba

Course Description: Students learn to use traditional drafting tools and the latest computer-aided design (CAD) software to create floor plans, elevations, foundation plans, site plans, pictorials, sections, and details. The curriculum complies with the Michigan Drafting & Design Segments: safety, drawing and classroom procedures, geometric construction, orthographic views, dimensioning & tolerancing, sections, pictorial drawings, fasteners, residential architecture, descriptive geometry, 3D parametric drawing, leadership and employability skills, assembly and working drawings. Successful completion satisfies the requirement for a Visual, Practical and Applied Arts (VPAA) credit. It also satisfies the requirement for one Math credit in the student's *senior year*. Tech Prep college credit can also be earned by students in this 2-year course.

Course Objectives: This program prepares students to apply technical knowledge and skills to create technical drawings through a broad foundation of applied academics and transferable basic skills, plus occupationally specific technical skills required to function in an increasingly complex and highly technological society and workplace.

Student Competencies: Drawing Procedures, Classroom Procedures and safety, Geometric Construction, Orthographic Views, Dimensioning and Tolerancing, Sections, Pictorial Drawings, Fasteners, Residential Architecture, Descriptive Geometry, 3D Parametric Drawing, Leadership and Employability Skills, Assembly and Working Drawings.

Course Outline: Michigan Drafting & Design Segments 1 through 12, also explained in Course Description, above.

Articulation Agreements: Ferris State University
Henry Ford Community College
Monroe County Community College