

**IA 179. Jewelry (2; max total 4) (Former IA 107)**

Designing and executing articles of jewelry using a wide range of traditional and contemporary materials and techniques; historical, cultural, economic, scientific and technological aspects of jewelry coordinated with laboratory experiences. (lecture-lab)

**WOODWORKING AREA****IA 80. Basic Woodworking (3) (Former IA 1)**

Basic woodworking processes and materials; use and care of hand tools and portable electric tools; design, construction, and finishing of simple wood products; wood turning; basic operations on light woodworking machinery; basic information units in wood technology.

**IA 82. Wood Machining (3) (Former IA 2)**

Prerequisite: IA 80 or permission of instructor. Development of proficiency in the operation and maintenance of modern woodworking machinery and spray finishing equipment; safety education, cutting principles and techniques, machine design and capabilities.

**IA 181. Wood Frame Building Construction (3) (Former IA 100)**

Principles of wood frame construction including foundations, framing, exterior finish and related areas of layout, estimating and ordering materials; conventional and modular component systems.

**IA 182. Advanced Wood Machining (3) (Former IA 101)**

Prerequisite: IA 82. Construction of furniture, cabinet work and millwork; design, construction details, production methods; analysis of cutting processes.

**IA 184. Woodworking Specialties (3) (Former IA 103)**

Prerequisite: IA 82. Specialized activities related to field of woodworking; wood finishing and paint technology, machine installation and maintenance, upholstering, inlaying and veneering, advanced wood turning, furniture restoration.

**IA 186. Wood Technology (3) (Former IA 104)**

Prerequisite: IA 82 or permission of instructor. Properties and uses of wood, lumber grading, lumber and wood products manufacturing, wood seasoning and preserving, plywood and laminated wood, glue and glued products, fiber and particle boards. (lecture-lab)

**PROFESSIONAL COURSES****IA 190. Independent Study (1-3; max see reference)**

*See Regulations and Procedures—Independent Study.*

**IA 192. Industrial Arts Education in Secondary Schools (3) (Former IA 123)**

Prerequisite: A Ed 105. Principles, objectives, and recent trends in modern industrial arts instructional practices, including group observation.

**IA 194. Course Materials in Industrial Arts Education (2) (Former IA 125)**

Prerequisite: IA 192. Development and use of written instructional materials; analysis and organization of course content for various subjects in industrial arts areas.

**IA 196. Graphic Communications (2) (Former IA 126)**

Preparation and use of instructional aids, including models, mockups, cutaways, charts, educational films, slides, overlays; photographic processes; planning, construction, classroom demonstration and evaluation.