

Cabinetry and Archit Woodwork (CAW)

CAW 100R Survey of Working with Wood 2

An introductory course for those interested in working with wood. Students will experience the satisfaction of making a piece of furniture with individualized help from the instructor. Includes "hands on" practice with woodworking equipment and instruction in methods to design, build, and finish a wood project. May be repeated up to four times for credit. Course fee of \$15 for materials, equipment applies.

CAW 1100 Artistic Wood Design 2

Explores form, functions, and utility of wood products through students' design and creation of projects in the wood lab. Provides opportunities to design and create a unique piece of woodwork.

CAW 1130 Residential Cabinetry 4

Studies cabinetmaking methods including joinery, construction, gluing, and clamping. Includes building a set of residential cabinets. Introduces hand and portable electric and air tools. Covers tool care and minor repairs. Stresses functions, selection, maintenance, and safety. Course fee of \$15 for materials, equipment applies.

CAW 1140 Millworking and Safety Shop I 5

A lab for CAW students. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Safety is taught the first 15 hours and stressed throughout the course. Course fee of \$25 for materials, equipment applies.

CAW 114A Millworking and Safety Shop I 2.5

Laboratory for Cabinetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course. Course fee of \$15 for materials, equipment applies.

CAW 114B Millworking and Safety Shop I 2.5

Laboratory for Cabinetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course. Course fee of \$15 for materials, equipment applies.

CAW 1150 Design Drafting and Billing 3

For CAW majors and other interested community members. Teaches detailed drawing concepts, writing bills of materials, and material cost estimates. Uses all elements of good design.

CAW 1170 Finish Technology 2

For CAW majors and other interested community members. Studies types of stains, fillers and finishes, and techniques to properly prepare wood. Teaches hand and spray painting. Includes lab experience. Course fee of \$15 for materials applies.

CAW 1210 Cabinetmaking Materials and Hardware 1

Emphasizes characteristics of wood, plastic laminates, plywoods, and particle boards. Discusses proper use and residential hardware. Covers specifications, types, selection, and installation.

CAW 1240 Millworking Shop II 5

A second semester shop course for CAW students and interested community members. Teaches the design and construction of more difficult millworking projects. Studies advanced jointers, finishing techniques, and fastening devices. Stresses safety. Course fee of \$25 for materials, equipment applies.

CAW 124B Millworking Shop II 2

A second semester shop course for CAW students and interested community members. Covers half of CAW 1240. Teaches the design and construction of more difficult Millworking projects. Studies advanced jointers, finishing techniques, and fastening devices. Stresses safety. Course fee of \$15 for materials, equipment applies.

CAW 1250 Drafting and Computer Applications for Cabinetmakers 4

Emphasizes design, purpose, function, appearance, materials, and construction for quality cabinetmaking. Covers efficient timesaving methods. Teaches material cost estimating. Teaches basic CNC software. Uses computer software Cabinet Vision & Master CAM. Course fee of \$15 for materials, software applies. Lab access fee of \$15 for computers applies.

CAW 140R Millwork Technology 4

Teaches the techniques and skills necessary to construct quality furniture using current technology and processes. Stresses safety, machine and tool usage, joinery, and operations. Each semester the joinery and operations will differ and increase in difficulty depending on the required project. May be repeated for a maximum of 16 credits toward graduation.

CAW 2250 Computer Aided Manufacturing for Woodworking 4

Teaches how to use computer numerical controlled "CNC" machines to aid in the manufacturing of wood products. Includes machine setup, tooling, software usage, and parts production. Uses CAM software.

CAW 2300 Counter Top Technology 3

Explores methods used to produce different types of counter-tops. Studies high pressure laminates, solid wood, solid surface, tile, and stone. Includes field trips to counter-top shops. Course fee of \$25 for materials, equipment applies.

CAW 2310 Cabinetry Math 2

Covers math used in cabinetmaking. Includes fractions, decimals, percents, interest, volume, and metrics. Studies special trade formulas. Students receive instruction through structured situations to cope with the special problems required in the woodworking industry.

CAW 2340 Millworking Shop III 5

Custom cabinetmaking shop. Practice in making and setting up custom shaper knives, doing custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee. Course fee of \$25 for materials, equipment applies.

Course Descriptions

CAW 234A **Millworking Shop III** **2.5**

Custom cabinetmaking shop. Covers half of CAW 2340. Practice in making and setting up custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee. Course fee of \$15 for materials, equipment applies.

CAW 234B **Millworking Shop III** **2.5**

Custom cabinetmaking shop. Covers half of CAW 2340. Practice in making and setting up custom shaper knives, doing custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee. Course fee of \$15 for materials, equipment applies.

CAW 2430 **Commercial Cabinetry Technology** **4**

Studies zoning, shop flow, and production set. Includes field trip to commercial cabinet shop. Teaches set up of machines used in the industry. Course fee of \$15 for materials, equipment applies.

CAW 2440 **Millworking Shop IV** **5**

A culminating architectural woodworking shop. Students build projects demonstrating advanced skills learned in previous shop courses. Course fee of \$25 for materials, equipment applies.

CAW 244B **Millworking Shop IV** **2**

Culminates previous architectural woodworking courses. Covers half of CAW 2440. Requires advanced skills, learned previously, to complete projects. Course fee of \$15 for materials, equipment applies.

CAW 2450 **Machine Maintenance and Upkeep** **2**

Studies the maintenance and upkeep of machines and tools used in the woodworking industry. Focuses on sharpening, routine maintenance, machine set-up, adjustments, and diagnosing problems.

CAW 281R **Cooperative Work Experience** **1 to 8**

* Corequisite(s): CAW 285R the first time only

For CAW majors. Provides paid, on-the-job work experience in the student's major. Work experience, the related class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated twice for credit. May be graded credit/no credit.

CAW 285R **Cooperative Correlated Class** **1**

* Corequisite(s): CAW 281R the first time only

For CAW majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lectures, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. May be repeated twice for credit.

CAW 299R **Skills USA** **1**

Supports and facilitates the goals and objectives of Skills USA pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests. May be repeated for a maximum of 2 credits toward graduation.