Cabinetry and Archit Woodwork (CAW)

CAW 100R
Survey of Working with Wood
2:0:5  Fall, Spring
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
2:1:4  On Sufficient Demand
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
4:1:9  Spring
Studies cabinmaking 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
5:0:15  Fall
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
2.5:0:7.5  Fall
Laboratory for Cabinetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Teaches the 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
2.5:0:7.5  Spring
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
3:3:0  Fall
For CAW majors and other interested community members. Teaches drawing concepts, writing bills of materials, and material cost estimates. Uses all elements of good design.

CAW 1160
Cabinetmaking Materials and Hardware
1:1:0  Fall
Emphasizes characteristics of wood, plastic laminates, plywoods, and particle boards. Discusses proper use and residential hardware. Covers specifications, types, selection, and installation.

CAW 1170
Finish Technology
2:2:1  Fall
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 1240
Millworking Shop II
5:0:15  Spring
A second semester shop course for CAW students and interested community members. Teaches the design and construction of more difficult millworking projects. Studies advanced joiners, finishing techniques, and fastening devices. Stresses safety. Course fee of $25 for materials, equipment applies.

CAW 124B
Millworking Shop II
2:0:6  On Sufficient Demand
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 joiners, finishing techniques, and fastening devices. Stresses safety. Course fee of $15 for materials, equipment applies.

CAW 1250
Drafting and Computer Applications for Cabinetmakers
4:4:0  Spring
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
4:0:12  Spring
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
4:3:3  Spring
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
3:3:0  Spring
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
Cabinet Math
2:2:0  Fall
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
5:0:15  Fall
Custom cabinetmaking shop. Practice in making and setting up custom shaper knives, doing custom flat and curved veneer and laminating 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.
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CAW 234A
Millworking Shop III
2.5:0:7.5  Fall
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
2.5:0:7.5  Spring
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 2430
Commercial Cabinetry Technology
4:1:9  Fall
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
5:0:15  Spring
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
2:0:6  On Sufficient Demand
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
2:2:0  Spring
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 8:0:5 to 40  Fall, Spring
* 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
1:1:0  Fall, Spring
* 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
1:1:0  Spring
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.