

# WOOD TECHNOLOGY (WOOD)

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## **WOOD 101. Wood Products and Processes. (3 Credits)**

An introduction to the furniture/lumber industry and its products, including commercial woods, furniture and cabinets, layout, hardware and assembly, as well as safety and nomenclature of machines are topics in this course. Laboratory includes introduction to common woodworking equipment and construction of small furniture project. This course has an additional lab fee. 3 credits (2 lecture hours, 2 laboratory hours), fall semester

## **WOOD 160. Wood Technology. (3 Credits)**

Anatomical features and physical properties and uses of wood are covered in this course as well as macro identification of commercially important species. 3 credits (2 lecture hours, 3 laboratory hours), spring semester

## **WOOD 170. Lumber Manufacturing & Grading. (3 Credits)**

This course covers basic sawmilling practices, the breakdown of logs into lumber, basic equipment and applications, air-drying of lumber and lumber grading rules. Prerequisite: MAGN 101 or permission of instructor 3 credits (2 lecture hours, 3 laboratory hours), spring semester

## **WOOD 180. Furniture Design Construction. (3 Credits)**

Survey of the various styles of furniture, their design and construction. Students will design and construct a piece of furniture. Prerequisite: WOOD 101, DRFT 151, CAD 181 or permission of instructor 3 credits (2 lecture hours, 2 laboratory hours), spring semester

## **WOOD 190. Summer Work Study. (3 Credits)**

This consists of work experience of at least 10 weeks in the wood industry between the first and second year a report is required. Prior instructor's approval and pre-registration is necessary. 3 credits, fall or spring semester

## **WOOD 211. Wood Industry Field Trip. (1 Credit)**

Supervised field trip for observation and study of organizations, facilities and processes in the various industries within the wood industry. A SWOT analysis report is required 1 credit, spring semester, senior year

## **WOOD 221. Wood Glues, Laminating & Finishes. (3 Credits)**

Basic concepts of surface preparation and application techniques used in gluing and finishing wood are covered in this course. Wood-adhesive and woodcutting relationships to assist diagnosing problems are also covered. Prerequisite: WOOD 160 3 credits (2 lecture hours, 3 laboratory hours), fall semester

## **WOOD 231. Wood Seasoning & Preservation. (3 Credits)**

Students will learn principles of wood seasoning, dry kiln operation, wood-water relationship and species variation which affect the production of defect-free dried lumber and basic wood preservation practices. Prerequisite: WOOD 160 3 credits (2 lecture hours, 2 laboratory hours), fall semester

## **WOOD 241. Secondary Wood Processing. (4 Credits)**

Students will explore the theory, principles and methods of machining wood, fastenings and assemblies. In a production environment. This course has an additional lab fee. Prerequisites: WOOD 160, WOOD 170, WOOD 180 4 credits (2 lecture hours, 6 laboratory hours), fall semester

## **WOOD 260. Production Maint Supervision. (2 Credits)**

General background in OSHA regulations pertaining to the wood & construction industry for production, installation & maintenance personnel. Basic CNC programming and job setup using "G Code" & "Master Cam" software. Course includes molder setup and operations including knife design & grinding and machine alignment. 2 credits (2 lecture hours, 2 laboratory hours), spring semester

## **WOOD 270. Wood Production Engineering. (3 Credits)**

This course is a complete engineering economic feasibility study course relative to the organization, location, establishment of a wood products manufacturing plant. Prerequisite: senior standing, WOOD 241 3 credits (1 lecture hour, 4 seminar hours), spring semester

## **WOOD 271. Cabinet Design/Manufacturing. (3 Credits)**

Introduction to the principles of cabinet design and construction including emphasis on practical production problems relative to planning, layout and design, terminology, estimating, production sequence, types of construction, finishing, man-made boards, and installation. This course has an additional lab fee. Prerequisite or co-requisite: WOOD 101, DRFT 151, CAD 181 or permission of instructor. 3 credits (1 lecture hours, 4 laboratory hours), spring semester.