

Syllabus

Attachment #5

Course Title: Designing Furniture Construction	Class:	
Instructor: Su, Wen-Ching	Credit: 2	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective
Prerequisite: No	Course Hours: 2hrs/week	
1. Course Objectives: This course is to introduce the joint technology and how to make it. Knowing what tools and techniques to use and how to arrange the correct sequence. Study subjects included furniture joint mechanism, dissolving the joint force, decreasing produce cost and increasing joint performance. Finally, students could understand furniture joint engineering and use it correctly.		
2. Course Format and Evaluation: 30% for mid-examination; 10% for quiz; 20% attendance ; 40% for final examination;		
3. Course Schedule: Chapter 1 – Characteristics of furniture construction and its types. Including of frame construction, panel construction and panel & frame construction. Chapter 2 – Introduction to furniture construction. Talk about the joint methods, joint types and joint characteristics. Chapter 3 – Loading design of furniture construction: Introduced to the loading types and analyze to the loading. <p style="text-align: center;">Mid Examination(1 hr): covering chapter 1, 2, 3</p> Chapter 4 – Chair joint engineering: few pieces of furniture have as much diversity of appearance as chair. The diversity in chairs is not confined to surface decoration, but often extends to variations in the basic construction. Learning points are made an accurate production drawing, an accurate bill of materials and established joint with correct methods. Chapter 5 – Construction design of cabinet and case goods: An article of cabinet furniture can, in most cases, be considered as an open box. Such a box has the property that when it is pushed or pulled enough to alter its shape. It is explored that the effects of joint on furniture construction. Case goods rigidity, box and case construction , doors, Bases, Feet, and Stands will be explored in this chapter. <p style="text-align: center;">Final Examination(1 hr): covering Chapter 4, 5</p>		
4. Textbooks and Readings: <ul style="list-style-type: none"> ● Edited teaching materials. ● Graubner, W.(1992) Encyclopedia of Wood Joints , The Taunton Press, USA. ● Willard, R.(1982) Furniture Construction, North Carolina State University, USA. ● Eckelman, C.A.(1978) Strength Design of Furniture, , Purdue University, USA. ● Shea, J.G.(1970) Woodworking for Everybody, Van Nostrand Reinhold Company, USA. 		