

# Syllabus

Attachment #1

Course Title: <b>Wood Machining and Machinery</b>	Class:	
Instructor: Su, Wen-Ching	Credit: 2	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective
Prerequisite: No	Course Hours: 2hrs/week	
<b>1. Course Objectives:</b> The goal of this course is to help you acquire the skills of machine woodworking. This course covers the use, setup, operations, maintenance and learning how to dissolve trouble shootings. Furthermore, survey to wood machining and machinery. Including machining characteristics of wood, machining engineering, basic cutting of wood and tool materials. Especially, this course gives you an in-depth understanding of the principles involved in machine woodworking.		
<b>2. Course Format and Evaluation:</b> 20% for each test; 30% for mid-examination; 10% for quiz and attendance; 40% for final		
<b>3. Course Schedule:</b> Chapter 1 – Introduction to types of machinery and their uses. Chapter 2 – Introduction to wood machining : including the mechanical of wood cutting, tool wear and machining defects. Chapter 3 – Planing working : the principle of milling and planer anatomy. <b>Mid Examination(1 hr): covering chapter 1, 2, 3</b> Chapter 4 – Band saw working : the principle of band saw cutting , installing band saw blade and really know how to adjust the machine correctly. Chapter 5 – Table saw working : to understand the types of saw blades, the selecting of various saw blade for different wood species and the application of table saw. Chapter 6 – Tenon and mortise working : the methods tenon and mortise and relative wood machinery. Chapter 7 – Sanding working : the principle of sanding, knowing the types of sand paper and sanding processes. <b>Final Examination(1 hr): covering Chapter 4, 5, 6</b>		
<b>4. Textbooks and Readings:</b> <ul style="list-style-type: none"><li>■ Mastering Woodworking Machines, Mark, D., The Taunton Press, USA.</li><li>■ Understanding Wood, Bruce, H., The Taunton Press, USA.</li><li>■ Woodworking, Willis, H. W., University of Northern Iowa, USA.</li></ul>		