

**Department of Forestry and Natural Resources , National Chiayi
University**

Freshman Year			
Professional Courses :Required Courses			
Subject	Semester	Credit Hours	The Amount of Credit Hours
General Chemistry	1	3.0	3
Laboratory of General Chemistry	1	3.0	1
General Botany	1	3.0	3
Laboratory of General Botany	1	3.0	1
Introduction of Agriculture	1	2.0	2
Soil Science	2	2.0	2
Practice of Soil Science	2	3.0	1
Ecology	2	3.0	3
Fundamental Silviculture	2	2.0	2
Visiting Tour of Forest Environment and Resources	2	3.0	1
Calculus	2	3.0	3
Sum of Semester			22
Professional Courses :Elective Courses			
Subject	Semester	Credit Hours	The Amount of Credit Hours
Introduction to Computer Science	1	3.0	3
Forest Culture	1	2.0	2
Organic Chemistry	2	3.0	3
Tree Morphology	2	2.0	2
Laboratory of Tree Morphology	2	3.0	1
Sum of Semester			11
Sum of Year			33

Sophomore Year			
Professional Courses :Required Courses			
Subject	Semester	Credit Hours	The Amount of Credit Hours
Biometry	1	2.0	2

Laboratory of Biometry	1	3.0	1
Tree Physiology	1	2.0	2
Laboratory of Tree Physiology	1	3.0	1
Forest Surveying	1	2.0	2
Laboratory of Forest Surveying	1	3.0	1
Dendrology(I)	1	2.0	2
Practice of Dendrology(I)	1	3.0	1
Silviculture(I)	1	2.0	2
Practice of Silviculture(I)	1	3.0	1
Forest Field Practice (I) : Dendrology	2	3.0	1
Forest Measurement	2	2.0	2
Practice of Forest Measurement	2	3.0	1
Dendrology(II)	2	2.0	2
Practice of Dendrology(II)	2	3.0	1
Silviculture(II)	2	2.0	2
Practice of Silviculture(II)	2	3.0	1
Sum of Semester			25
Professional Courses :Elective Courses			
Subject	Semester	Credit Hours	The Amount of Credit Hours
Forest Soil Science	1	3.0	3
Botanical Microtechnique	1	2.0	2
Specific Issues on Forest Landscape Plants	2	3.0	3
Genetics	2	2.0	2
Plant Anatomy	2	2.0	2
Laboratory of Plant Anatomy	2	3.0	1
Sum of Semester			13
Sum of Year			38

Junior Year			
Professional Courses :Required Courses			
Subject	Semester	Credit Hours	The Amount of Credit Hours
Forest Policy	1	3.0	3
Forest Field Practice (II) Silvics	1	3.0	1
Forest Protection	1	2.0	2

Forest Field Practice(III): Surveying, Measurement and Management	2	3.0	1
Seminar(I)	2	2.0	1
Bachelor Thesis(I)	2	2.0	0
Sum of Semester			8
Professional Courses :Elective Courses			
Subject	Semester	Credit Hours	The Amount of Credit Hours
Introductory Biodiversity	1	2.0	2
Silviculture of Important Trees	1	3.0	3
Tree Mycorrhiza	1	2.0	2
Forestry Experimental Design	1	2.0	2
Urban Forestry	1	2.0	2
Introduction of Wildlife	1	2.0	2
Forest Aerial Photogrammetry	1	2.0	2
Forest Nutrition	1	3.0	3
Plant and Environmental Stress	1	2.0	2
Introductory Remote Sensing and Laboratory	1	3.0	3
Electron Microscopy Techniques	1	2.0	2
Geographic Information Systems for Natural Resources and Laboratory	2	3.0	3
Seed of Forest Trees	2	3.0	3
Forest Products	2	2.0	2
Forest Economics	2	2.0	2
Wildlife Management	2	2.0	2
Forest Ecology	2	2.0	2
Forest Entomology	2	2.0	2
Plant Tissue Culture	2	2.0	2
Laboratory of Plant Tissue Culture	2	2.0	1
Forest Pathology	2	2.0	2
Environmental Economics and Policy Analysis	2	2.0	2
Forest Landscape Design	2	2.0	2
Laboratory of Forest Landscape Design	2	3.0	1
Forest Recreation	2	2.0	2
Sum of Semester			53
Sum of Year			61

Senior Year			
Professional Courses :Required Courses			
Subject	Semester	Credit Hours	The Amount of Credit Hours
Seminar (II)	1	2.0	1
Forest and Natural Resources Management	1	2.0	2
Laboratory of Forest and Natural Resources Management	1	3.0	1
Bachelor Thesis (II)	1	2.0	2
Campus-off Practice of Forestry Operational Technigues	2	2.0	0
Forest Ecosystem Management	2	2.0	2
Laboratory of Forest Ecosystem Management	2	3.0	1
Sum of Semester			9
Professional Courses :Elective Courses			
Subject	Semester	Credit Hours	The Amount of Credit Hours
Protected Area Management	1	2.0	2
National Park Management	1	2.0	2
Forest Hydrology	1	2.0	2
Plant Taxonomy	1	2.0	2
Plant Biotechnology	1	2.0	2
Arboriculture	1	2.0	2
Envioronmental Impact Assessment	1	2.0	2
Tree of landscape	1	2.0	2
Soil and Water Conservation	2	2.0	2
Ecotourism	2	2.0	2
Natural Resources Conservation	2	2.0	2
Forest Tree Improvement Technique	2	2.0	2
Forest and Natural conservation Laws	2	2.0	2
Forest Aesthetics	2	2.0	2
Forest Evaluation	2	2.0	2
Greening Resources Management	2	2.0	2
Environment Forestry and Ethics	2	2.0	2
Environmental Education and Interpretation	2	2.0	2
Sum of Semester			36

	Sum of Year 45
--	-----------------------