# Agroforestry Syllabus

1) Introduction
    a) Definition
        i) importance
        ii) advantages and disadvantages
    b) History
    c) Concepts and Principles
        i) problems addressed by agroforestry
        ii) why agroforestry?
        iii) the role of agroforestry in meeting individual/community needs
2) Classification
    a) Types
    b) Crop/Animal Components
3) Biological Aspects of Agroforestry
    a) Plant aspects
        i) multi-purpose trees
            (1) definition
            (2) products
            (3) useful species
        ii) agroforestry species selection
            (1) temperate examples
            (2) tropical examples
    b) Soil aspects
        i) below ground interactions
        ii) nutrient cycling
        iii) soil conservation
    c) Water aspects
4) Silvicultural management and Productivity
    a) Weeds, pests and diseases
    b) Potentials and limitations of agroforestry
        i) environmental limiting factors
            (1) sunlight
            (2) water
            (3) nutrients
        ii) social limiting factors
            (1) labor
            (2) capital
5) Economic aspects
    a) Valuation of products and benefits
    b) Cost vs. benefits
6) Social aspects
    a) Adoption of A/F systems
    b) Land tenure
    c) Gender issues
    d) Social forestry
    e) Extension techniques
7) Design, Management and Evaluation of Agroforestry Systems
    a) Planning agroforestry systems
    b) Prospects of GIS/GPS in design
    c) Diagnosis and Design
    d) Identification of problems

    e) Comparative evaluations
        i) economic examples
        ii) social examples
    f) Management of agroforestry systems
8) Examples
    a) Temperate Case Studies
    b) Tropical Case Studies
9) Institutions Working in Agroforestry
    a) ICRAF
    b) CATIE
    c) CGIAR
    d) OTS
    e) USFS
    f) others