



Republic of the Philippines
CEBU TECHNOLOGICAL UNIVERSITY
Province of Cebu

Website: <http://www.ctu.edu.ph>

Email: thepresident@ctu.edu.ph

Phone: +6332 402 4060 loc. 1137



Page
PAGE 2 of
5

COURSE SYLLABUS

in

SFFG 415

Agroforestry and Sustainable Upland Development

1st Semester, A.Y. 2021-2022

INS Form 1
September 2021
Revision: 5
Page 1 of 9 pages

Department/ Area	:	Forestry
Curriculum	:	Bachelor of Science in Forestry
Curricular Year	:	Fourth Year
No. of Hours/Sem.	:	90 (2 hrs. lecture and 3 hrs. lab)
Credit Unit(s)	:	3
Prerequisite(s)	:	None

Vision of the University : A premier, multidisciplinary-technological university.

Mission of the University: Cebu Technological University provides advanced professional and technical instruction for special purposes, industrial trade, teacher education, agriculture, fishery, forestry, engineering, aeronautics and land-based programs, arts and sciences, health sciences, information technology and other relevant fields of study. It undertakes research, production and extension services, and provide progressive leadership across the areas of specialization for global empowerment.

Goal of the University : The University shall produce scientifically and technologically oriented human capital equipped with appropriate knowledge, skills, and attitudes. It shall likewise pursue relevant research strengthen linkages with the industry, community and other institutions and maintain sustainable technology for the preservation of the environment.

Core Values : Commitment, Transparency, Unity, Patriotism, Integrity, Excellence, Spiritually (CTU PIES)

Program Outcomes: The graduates of the Bachelor of Science in Forestry program should have developed the ability to:

1. Perform leadership and supervisory tasks in forest management, protection, governance, and law enforcement.
2. Demonstrate competence and value of his work in forest restoration and rehabilitation, climate change adaptation, soil and water management, biodiversity assessment and conservation, planning and resource mapping using appropriate ICT tools and methods.
3. Exhibit entrepreneurial abilities in forestry-related business such as establishing commercial plant nurseries and tree farming enterprise, among others.
4. Commit to discharge his complete skills in the performance of his duties and learn new developments and innovations in the profession for continual improvement.

Course Description: Agroforestry as a strategy in sustainable upland development.

Course Learning Outcomes: At the end of the course, we expect the students to:

1. explain agroforestry practices, concept, principles, and the types and classification; (PO 2; PO 3)
2. apply the concept and principles of agroforestry in the field of study; (PO 1; PO 3)
3. formulate Agroforestry and sustainable upland development plan. (PO 1 - PO 4)

Course Content:

INTENDED LEARNING OUTCOMES (TIME ALLOCATION)	ASSESSMENT TASKS	TEACHING-LEARNING ACTIVITIES	CONTENTS	LEARNING RESOURCES	Remarks
<p>Connect the VMG of the College and the university to the course.</p> <p>(CLO 6)</p> <p>(3.0 hours)</p>	<p>Promotional video/audio on the relevance/importance of University's VMG to the course of forestry through any ICT tool</p>	<p>Interactive Lecture-discussion with guide questions</p> <p>Video Analysis</p> <p>Rubrics on video</p>	<p>I. Course Orientation</p> <p>A. CTU's Vision, Mission and Goals</p> <p>B. Department of Forestry VMG</p> <p>C. Qualities of a Professional Forester in the Light of K +12 Educational reforms and CTU's VMG</p> <p>D. Course Outline and Requirements</p>	<p>-Electronic Manuals</p> <p>-YouTube Video</p> <p>https://www.youtube.com/watch?v=flkPIDaqSm0</p>	
<p>Explain how agroforestry practice differs from agriculture and forestry.</p>	<p>Learning Exercise on the milestones in agroforestry education development in the Philippines</p>	<p>Learning Management System (Online Learning)</p> <p>Collaborative/Interactive Lecture/discussion</p> <p>K-W-L chart</p>	<p>Unit 1- General Introduction</p> <p>I. Description of Agroforestry Practices</p> <p>II. Emergence and Evolution of Agroforestry Education Programs</p>	<p>-Zoom Meetings</p> <p>-Online Readings</p> <p>-Mentimeter</p>	

15 hrs.		Quiz using quizziz application			
Discuss the principles and concepts of Agroforestry	Collaborative written/oral report of outputs (group task)	Learning Management System (Online Learning) Interactive Lecture-discussion with guide questions Group Discussion (Breakout Rooms in Zoom) Quiz	Unit 2-Principles and Concepts of Agroforestry I. Why Agroforestry II. Agroforestry in the Philippine Context III. Biological & Socio-Economic Premises of Agroforestry	-E-book -Teacher-made Power point Presentation -Zoom Meetings/Break-out Room -Online Readings -Online Journals -Mentimeter	
15 hrs.					
Pass the major exam as evidence of the effective learning management process.	PRELIM EXAMINATION (1.5 hours)				
Distinguish the different types and classification of Agroforestry system in the Philippines	Individual written output	Collaborative/interactive learning using Concept mapping Lecture/discussion with guide questions Reporting Quiz using quizziz application	Unit 3-Types and Classification of Agroforestry Systems in the Philippines I. Structural II. Functional III. Socio-Economic IV. Ecological V. Implications of Agroforestry System Design	-Online Readings -Teacher-made PowerPoint Presentation -Zoom Meeting/Break-out Room - Jamboard	
15 hrs.					

Discover the roles of trees and agricultural crops in agroforestry system. 12 hrs.	Collaborative output (group task).	Learning Management System (Online Learning) Interactive Lecture/discussion Padlet Breakout rooms Quiz using quizziz application	Unit 4- Roles of Trees & Agricultural Crops in Agroforestry Systems I. Agroforestry and the Environment II. Sustainable Development Goals	-PowerPoint Presentation (Teacher-made) -Zoom Meetings/Google Meet -Online Readings	
Pass the major exam as evidence of the effective learning management process	MIDTERM EXAM EXAMINATION (1.5 hours)				
Identify the land management and soil husbandry practices in Agroforestry 10 hrs.	Individual/group task	Learning Management System (Online Learning) Lecture/discussion with guide questions Brainstorming Quiz using quizziz application	Unit 5- Land Management and Soil Husbandry Practices in Agroforestry I. Site Analysis II. Sustainable Management Technologies	-Teacher-made Power point Presentation -Zoom Meetings -Online Readings -Online Journals	- .
Pass the major exam as evidence of the effective	SEMI-FINAL EXAMINATION (1.5 hours)				

learning management process.					
Create an Agroforestry development plan 14 hrs.	Individual task such as Drafting of Agroforestry Development Plan	Learning Management System (Online Learning) Collaborative/interactive learning Quiz using quizzizz application	Unit 6- Preparation of Agroforestry Development Plan I. Steps for Developing an Agroforestry Plan	-Teacher-made Power point Presentation -Zoom Meetings/Google Meet -Online Readings -Handbook for Agroforestry Planning and Design	
Pass the major exam as evidence of thorough learning of topics.	FINAL EXAMINATION (1.5 hours)				

References:

- Baguinon, N. T., Lasco, R. D., Macandog, D. M., Pasicolan, P. N., & Villancio, V. T. (2020). Agroforestry and land use in the Philippines. *World*, 11.
- Brown, S. E., Miller, D. C., Ordonez, P. J., & Baylis, K. (2018). Evidence for the impacts of agroforestry on agricultural productivity, ecosystem services, and human well-being in high-income countries: a systematic map protocol. *Environmental evidence*, 7(1), 1-16.
- Hellin, J. (2019). *Better land husbandry: from soil conservation to holistic land management*. CRC Press.
- Miller, D. C., Ordoñez, P. J., Brown, S. E., Forrest, S., Nava, N. J., Hughes, K., & Baylis, K. (2020). The impacts of agroforestry on agricultural productivity, ecosystem services, and human well-being in low-and middle-income countries: An evidence and gap map. *Campbell Systematic Reviews*, 16(1).
- Pantera, A., Mosquera-Losada, M. R., Herzog, F., & den Herder, M. (2021). Agroforestry and the environment. *Agroforestry Systems*, 1-8.
- Santoro, A., Venturi, M., Bertani, R., & Agnoletti, M. (2020). A review of the role of forests and agroforestry systems in the FAO Globally Important Agricultural Heritage Systems (GIAHS) programme. *Forests*, 11(8), 860.
- Van Noordwijk, M., Zomer, R. J., Xu, J., Bayala, J., Dewi, S., Miccolis, A., ... & Rizvi, J. (2019). Agroforestry options, issues and progress in pantropical contexts. *Sustainable development through trees on farms: Agroforestry in its fifth decade*, 137-161.

Course Requirements:

1. Learning exercises 2. Term Examinations 3. Quizzes 4. Individual/Group Tasks 5. Class Participation

For Lecture Class:

1. Quizzes
2. Learning Task
3. Class Participation
4. Term Examination

Evaluation Procedure: (Approved Grading System Applicable to the Course/Program)

Class Standing	-----	60%
	Quizzes – 30%	
	Graded Oral Presentation- 20%	
	Projects/Assignments/Final Report-10%	
Term Examination	-----	40%
	Total	100 %

Prepared by:



GLORY GRACE G. GEALON

Revision Date: September 2021

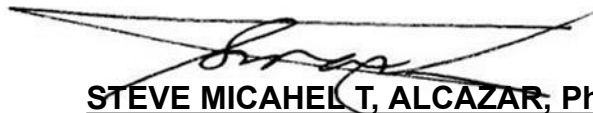
Submission Date:

Utilized by:

Consultation Hours: Every Tuesday at 3:00-5:00 P.M.

Contact Details: Cellphone no. : 0915-870-6683/email: glorygrace.gealon@ctu.edu.ph

Upon Recommendation of the Curriculum Committee



STEVE MICAHEL T. ALCAZAR, Ph.D.

Program Focal Person/Dean, College of
Agriculture, Forestry, and Environment
CTU Argao Campus



ANTHONY S. ILANO, Ph.D.

Program Focal Person/Dean of Instruction
CTU Carmen Campus



EDGARDO P. LILLO, Ph.D.

Program Focal Person/Chair, R&D
CTU Argao Campus & Center Director

Approved by:



LYNNETTE MATEA S. CAMELLO

Program Cluster Coordinator