Course: AG 330--Landscape Design

Unit	Objective	CAERT Lesson Plan Library	Unit	Problem Area	Lesson
A. Introducation to Landscaping	1. Match terms and definitions associated with landscaping	Horticulture	C	2	1,2,3,4
	2. List the duties and responsibilities of a landscape architect				
	3. List the duties and responsibilities of a landscape horticulturalist				
	4. Name the objectives of developing a landscape plan		C	2	7
	5. List the guiding principles of landscape design		C	2	4
	6. Identify as true or false statements relating to the elements of a good landscape design				
	7. Name the main areas to develop in a landscape design		C	2	3
	8. Identify the tools associate with landscape design		C	2	7
	9. Select statements that pertain to corner plantings		C	2	4
	10. Identify factors as they relate to entrance and foundation plantings				
	11. List three different occupations related to landscaping		A	1	4
B. Landscape Design	1. Match terms and definitions associated with landscape design	Horticulture	C	2	1,2
	2. List the elements of landscape design				
	3. List the principles of symmetry in landscape design		C	2	4
	4. Choose between formal and informal design factors		C	2	4
	5. Draw and explain the symbols used in landscape design		C	2	7
	6. List the sequence of planning a landscape design		C	2	2,3,7
	7. List the ways to attain contrast in a landscape design				
	8. Identify as true or false statements about repetition and rhythm in landscape design		C	2	4
	9. Discuss proportion or scale as it relates to landscape design		C	2	4
	10. Identify plants that are commonly uses in landscaping		C	2	4,6
	11. List the common mistakes made in foundation plantings				
	12. List the maintenance considerations in a landscape design		C	4	1,2,3
	13. List the factors used in developing a private area in landscaping		C	2	2
	14. Complete a scale exercise landscape plan		C	2	3
	15. Develop a home landscape plan		C	2	1,2,3,7
C. Climate and Zonation	1. Match terms and definitions associated with climate and plant zones	Horticulture	C	2	6
	2. List the factors which influence weather		C	2	6

	3. Explain plant hardiness and the importance of it in choosing plants for landscaping		C	2	6
	4. Select appropriate plants for various landscaping conditions and considering climate		C	2	6
	5. Demonstrate the ability to determine climate zone and develop a landscape plan for a given area		C	2	6
D. Soil Conservation	1. List types of erosion	Horticulture	A	4	9
	2. List factors that influence soil erosion		A	4	9
	3. Describe the four categories of water erosion		A	4	9
	4. List conservation practices for reducing erosion		A	4	9
	5. List mechanical and cropping practices used to reduce water erosion		A	4	9
	6. List factors that determine cropping systems		A	4	9
	7. List three organizations involved with soil conservation				
E. Ornamental Plant Identification	1. Discuss the system of plant classification	Horticulture	A	2	1
	2. Identify the parts of simple and compound leaves		A	2	4
	3. Name the types of leaf arrangement, venation and margins				
	4. Identify the types of leaf arrangement to the stem		C	2	2
	5. Identify the parts of a stem		A	2	3
	6. Match stem modification to their descriptions		A	2	3
	7. Identify the types of inflorescences				
	8. Identify 100 common ornamental indoor plants				
	9. Identify 100 common ornamental outdoor plants				
F. Horticulture Tools, Equipment, and Machinery	1. Match terms and definitions associated with horticulture tools	Horticulture	C	6	1
	2. List the general rules for choosing garden tools		C	6	1
	3. List the kinds of shovels		C	6	1
	4. Name the kinds of hoes		C	6	1
	5. Identify as true or false statements about hoes		C	6	1
	6. List the kinds of shears		C	6	1
	7. Name the kinds of spading forks and two uses of each		C	6	1
	8. List some special tools used in horticulture		C	6	1
	9. Select preventative maintenance techniques for horticulture tools		C	6	1
	10. List the kinds of equipment used in horticulture and landscaping		C	6	2
	11. Name the tractor implements used in horticulture applications		C	6	3

G. Electrical Controls and Sensing Devices	1. Identify types of controls by nomenclature and use, including thermostats, humidostats, photoelectric cells, magnetic relays, timers, pressure switches, and time delay equipment	Ag Mechanics and Technology	A	4	8
	2. Set controls, such as timers and switches, for the desired performance				
	3. Use low voltage electrical control equipment				
	4. Interpret wiring diagrams		A	4	6
	5. Select controls for electric motors from supply catalogs				
	6. Connect, start, and stop magnetic motor controllers				
	7. Install a timer circuit				
	8. Install a thermal delay relay control				
	9. Install a low voltage motor control system				
	10. Install a switch control for starting 115 & 230 volt motors				
	11. Install a sensing device such as a thermostat, humidostat, photoelectric cell, etc.				
H. Leveling and Land Measurement	1. Set up leveling instrument	Ag Mechanics and Technology	A	2	2
	2. Take rod readings		A	2	2
	3. Determine difference in elevation of two or more points		A	2	2
	4. Record field notes for differential leveling		A	2	4
	5. Measure distance with steel tape		A	2	2
	6. Determine percent of slope		A	2	2
	7. Determine land area				
	8. Use the hand level		A	2	2
	9. Read legal land descriptions		A	2	1
	10. Lay out foundations, footings, and batter boards				
I. Lawn Site Quality and Preparation	1. Identify common lawn tools and the safety practices associated with them				
	2. Demonstate the ability to prepare a lawnsite for proper drainage				
	3. Develop and irriagation plan for a lawnsite	Horticulture	C	3	2
	4. Demonstrate the ability to prepare a proper seedbed		C	3	4
	5. Develop an overall plan for a lawn, protecting valuable natural features, to enhance property value				
J. Maintaining Lawns	1. Describe how to properly water a lawn	Horticulture	C	4	2
	2. Explain what happens when a newly seeded lawn has too much traffic				
	3. Describe the use of weed killers on a newly seeded lawn				
	4. Describe the mowing schedule of a newly seeded lawn				
	5. List the types of equipment for lawn mowing				
	6. Describe what each type of fertilizer does for a lawn		C	4	2

	7. Develop a fertilizer schedule for a lawn		C	4	2
	8. Identify common lawn problems				
	9. Select the qualities of a good and poor lawn				
	10. Demonstrate the ability to aerate a lawn				
	11. List the maintenance practices for lawns		C	4	2
K. Identification and Control of Turf Grass Pests	1. List the common diseases of turf grass				
	2. Describe the symptoms of various turf diseases				
	3. List the preventative management practices to avoid turf grass diseases				
	4. Identify the common insect pests harmful to lawns				
	5. Identify the common lawn diseases				
	6. Match the damage to the lawn with the pest responsible				
	7. Match the pests with the control measures for each				
	8. List the reasons for controlling weeds in lawns	Horticulture	A	5	8
	9. Identify the common turf grassess used in the northwest and their specific area of advantage				
	10. List the management practice used in controlling lawn weeds		C	4	2
L. Gardening	1. Locate a desirable garden site at home	Horticulture	C	5	1
	2. Determine the size of garden a family of four would need		C	5	1
	3. Plan a garden layout based on suggested planting groups		C	5	1
	4. Select vegatable varieties based on family preference, geographics, and vegetable seed availability		C	5	2
	5. Estimate cost and return of a home garden				
	6. Determine the proper time to prepare garden soil for crops				
	7. Demonstrate the ability to prepare garden soil with usual cultural practices				
	8. Demonstrate the ability to properly plant a garden		C	5	2
	9. Demonstrate the ability to transplant vegetables from flats and hot beds		C	5	2
	10. List proper garden irrigation methods		C	5	2
	11. List the common garden fertilization methods		C	5	2
M. Salesmanship	1. Match terms an definitions associated with salesmanship	Agribusiness Management	B	5	5
	2. Describe how to be a service to the customer		B	5	5
	3. Explain how to use persuasion in closing a sale		B	5	5
	4. Discuss the necessity to educate the customer before proceeding in the sales process		B	5	5
	5. Discuss how vital sales are in the American system of economy				

	6. List the steps in making a sale		B	5	5