

PLANTS SCIENCE

Week 1

Introduction to Agricultural Plants

Week 2

Unit 1 Introduction to Agricultural Plants

1a. Investigate student organizations in the plant industry.

Week 3

Unit 1 Introduction to Agricultural Plants

2a. Demonstrate communication skills for employment in the plant industry.

Week 4

Unit 1 Introduction to Agricultural Plants

2a. Demonstrate communication skills for employment in the plant industry.

2e. Write a business letter using accepted procedures

Week 5

Unit 1 Introduction to Agricultural Plants

2a. Demonstrate communication skills for employment in the plant industry.

2f. Complete a resume, letter of application, and job application form.

Week 6

Unit 1 Introduction to Agricultural Plants

3. Use the internet to discover emerging technologies.

Week 7

Unit 2 Supervised Experience in Agricultural Plants

1. Plan implement, and expand supervised experience in plant agriculture.

2. Prepare and keep appropriate written documentation on supervised experience.

Week 8

Unit 3 Plant Enterprises and Systems

1. Examine how plants are used to meet human needs
2. Examine plant production enterprises.
3. Assess the functions and importance of plants.

Week 9

Unit 5 Plant Classification and Physiology

1. Examine the methods by which plants are classified.

Week 10

Unit 5 Plant Classification and Physiology

2. Examine the anatomy of a plant.

Week 11

Unit 5 Plant Classification and Physiology

3. Assess the physiological principles of a plant (how a plant functions as a system)

Week 12

Unit 4 Plant Growth

1. Examine the principles of plant growth

Week 13

Unit 4 Plant Growth

1. Examine the principles of plant growth

Week 14

Unit 4 Plant Growth

2. Describe nutrients necessary for plant growth

Week 15

Unit 4 Plant Growth

3. Identify the pH of soil and its effect on plant nutrition and growth.

Week 16

- Thanksgiving Holidays

Week 17

Unit 4 Plant Growth

4. Use soil test results to calculate application rates of fertilizer on a selected crop.

Week 18

Unit 6 Reproduction and Propagation

1. Examine the principles of genetics.

Week 19

Unit 6 Reproduction and Propagation

2. Distinguish between sexual and asexual reproduction.

Week 20

- Christmas Holidays
- Teacher Work Day

Week 21

Unit 6 Reproduction and Propagation

2. Distinguish between sexual and asexual reproduction.
3. Demonstrate the propagation of plants.

Week 22

Unit 7 Plant Growing Structures

1. Describe the various plant growing structures and the environmental controls used by each type.

Week 23

- Martin Luther King Holiday

Week 24

Unit 7 Plant Growing Structures

2. Examine plant production in growing structures.

Week 25

Unit 8 Cultural and Harvesting Practices.

1. Examine the types of growing media.

Week 26

Unit 8 Cultural and Harvesting Practices.

1. Examine the types of growing media.

Week 27

Unit 8 Cultural and Harvesting Practices.

2. Discuss the different soil amendments.

Week 28

- President Day

Unit 8 Cultural and Harvesting Practices.

3. Determine the conditions needed for plant growth in a greenhouse.

Week 29

Unit 8 Cultural and Harvesting Practices.

4. Assess tillage and cultivation practices.

Week 30

Unit 8 Cultural and Harvesting Practices.

5. Explain the meaning and importance of harvesting.

Week 31

- Spring Break

Week 32

Unit 8 Cultural and Harvesting Practices.

6. Explain the different harvesting methods, equipment, and facilities.

Week 33

Unit 9 Pest Management

1. Assess the effects of pest on plant production.

Week 34

Unit 9 Pest Management

2. Discuss biological control systems.

Week 35

Unit 9 Pest Management

3. Describe chemical control with pest.

Week 36

Unit 9 Pest Management

4. Demonstrate different types of mechanical pest control.
5. Examine integrated pest management.

Week 37

Unit 10 Management and Marketing in Plant Production

1. Explain the management practices needed in plant production.
2. Examine marketing in plant production.

Week 38

Unit 11 Environmental Concerns from Sustainable Agriculture

1. Examine how agricultural activities can affect the environment.

Week 39

Unit 11 Environmental Concerns from Sustainable Agriculture

2. Discuss disposal methods of agricultural waste.

Week 40

Unit 12 New Technologies in Plant Production

1. Examine precision farming as a new technology in plant production.

Week 41

- Final Exams