

# MS-CPAS2 Blueprint Summary

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**Assessment:** Horticulture - Year 1  
**Test Code:** 10137Y1-2011  
**CIP Code:** 010601  
**Course Codes:** 991400, 991403  
**Type:** CP

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The MS-CPAS2 Blueprint Summary indicates the number of assessment questions related to each unit on the assessment and indicates the relative emphasis placed on each unit. All of the listed competencies will appear on the assessment, but because of the length of the assessment, not every competency will be equally represented in the assessment.

The MS-CPAS2 Blueprint Summary includes a variety of information, which is explained below:

| Term and Definition          |   |
|------------------------------|---|
| <b>Assessment:</b>           | This signifies the name of the assessment, which corresponds with the name of the pathway or program.   |
| <b>CIP Code:</b>             | Developed by the U.S. Department of Education's National Center for Education Statistics (NCES), CIP codes are a federal coding system utilized for assessment and reporting of fields of study and program completions activity tracking.  |
| <b>Test Code:</b>            | A unique code that serves to numerically identify a specific assessment   |
| <b>DOK Levels:</b>           | Based on Webb's Depth of Knowledge (DOK), this signifies the assessment item difficulty factor to be expected in each unit. The three levels are as follows:<br><i>1 = Recall and Reproduction, 2 = Skills and Concepts, 3 = Short-term Strategic Thinking</i><br><b>Some postsecondary programs will not use DOK levels until the next revision.</b> |
| <b>Instructional Hours:</b>  | The total number of hours assigned to a unit per the pathway's curriculum   |
| <b>Total Items:</b>          | The total number of items assigned to each unit on the assessment. It is calculated as follows:<br><i>(Unit Instructional Hours / Total Instructional Hours) * Total Active Items</i>   |
| <b>Active Items:</b>         | The number of items on the assessment that will be graded   |
| <b>Field-test Items:</b>     | The number of items that are being field-tested, or piloted, to determine their eligibility for inclusion as an Active Item on future assessments. These items are not graded and, thus, will not impact the student's final score.   |
| <b>Total Assessed Items:</b> | The total number of items on the given assessment. It is calculated as follows:<br><i>Active Items + Field-test Items</i>   |

For more information regarding this MS-CPAS2 Blueprint Summary, please contact the Mississippi Assessment Center by phone at 1.866.901.7433 or by e-mail at [helpdesk@rcu.msstate.edu](mailto:helpdesk@rcu.msstate.edu).

| Assessment:   | Horticulture - Year 1 | DOK Level(s) |  |      | Instructional Hours         | Total Items |
|---|-----------------------|--------------|--|------|-----------------------------|-------------|
| Test Code:  | 10137Y1-2011          |              |  |      |                             |             |
| CIP Code:   | 010601                |              |  |      |                             |             |
| Total Hours:  | 193                   |              |  |      |                             |             |
| <b>Unit 2: Basic Plant and Soil Science (Plant Structure and Growth)</b>        | 1                     | 2            |  | 67.5 | 28                          |             |
| 1. Explore plant structure and their functions.                                 |                       |              |  |      |                             |             |
| 2. Apply systems of plant classification.                                       |                       |              |  |      |                             |             |
| 3. Describe and apply principles of plant growth media.                         |                       |              |  |      |                             |             |
| <b>Unit 3: Horticulture Structures</b>  | 1                     | 2            |  | 20   | 8                           |             |
| 1. Describe the characteristics and features of different types of greenhouses. |                       |              |  |      |                             |             |
| <b>Unit 4: Plant Propagation</b>  | 1                     | 2            |  | 33   | 14                          |             |
| 1. Distinguish between sexual and asexual reproduction.                         |                       |              |  |      |                             |             |
| <b>Unit 5: Principles of Pest Management</b>                                    | 1                     | 2            |  | 28   | 12                          |             |
| 1. Assess the effects of pests on plant production.                             |                       |              |  |      |                             |             |
| 2. Identify, describe, and apply pesticide safety procedures.                   |                       |              |  |      |                             |             |
| <b>Unit 6: Greenhouse Crops and Olericulture Production</b>                     | 1                     | 2            |  | 44   | 18                          |             |
| 1. Describe and apply principles of greenhouse crop production.                 |                       |              |  |      |                             |             |
| 2. Describe and apply principles of olericulture production.                    |                       |              |  |      |                             |             |
|   |                       |              |  |      | <b>Active Items</b>         | <b>80</b>   |
|   |                       |              |  |      | <b>Field-Test Items</b>     | <b>20</b>   |
|   |                       |              |  |      | <b>TOTAL ASSESSED ITEMS</b> | <b>100</b>  |

# MS-CPAS2 Blueprint Summary

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**Assessment:** Horticulture - Year 2  
**Test Code:** 10137Y2-2011  
**CIP Code:** 010601  
**Course Codes:** 991401, 991405  
**Type:** CP

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| Term and Definition          |   |
|------------------------------|---|
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| <b>Test Code:</b>            | A unique code that serves to numerically identify a specific assessment   |
| <b>DOK Levels:</b>           | Based on Webb's Depth of Knowledge (DOK), this signifies the assessment item difficulty factor to be expected in each unit. The three levels are as follows:<br><i>1 = Recall and Reproduction, 2 = Skills and Concepts, 3 = Short-term Strategic Thinking</i><br><b>Some postsecondary programs will not use DOK levels until the next revision.</b> |
| <b>Instructional Hours:</b>  | The total number of hours assigned to a unit per the pathway's curriculum   |
| <b>Total Items:</b>          | The total number of items assigned to each unit on the assessment. It is calculated as follows:<br><i>(Unit Instructional Hours / Total Instructional Hours) * Total Active Items</i>   |
| <b>Active Items:</b>         | The number of items on the assessment that will be graded   |
| <b>Field-test Items:</b>     | The number of items that are being field-tested, or piloted, to determine their eligibility for inclusion as an Active Item on future assessments. These items are not graded and, thus, will not impact the student's final score.   |
| <b>Total Assessed Items:</b> | The total number of items on the given assessment. It is calculated as follows:<br><i>Active Items + Field-test Items</i>   |

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| Assessment:  | Horticulture - Year 2 | DOK Level(s) |  |      | Instructional Hours | Total Items |
|--|-----------------------|--------------|--|------|---------------------|-------------|
| Test Code:   | 10137Y2-2011          | DOK Level(s) |  |      | Instructional Hours | Total Items |
| CIP Code:  | 010601                | DOK Level(s) |  |      | Instructional Hours | Total Items |
| Total Hours:   | 195                   | DOK Level(s) |  |      | Instructional Hours | Total Items |
| <b>Unit 8: Nursery and Landscape Plant Identification</b>  | 1                     | 2            |  | 25   | 10                  |             |
| 1. Identify and describe the use of major plants associated with nursery and landscape operations. |                       |              |  |      |                     |             |
| <b>Unit 9: Horticulture Marketing and Business Procedures</b>                                      | 1                     | 2            |  | 27.5 | 11                  |             |
| 1. Describe and apply marketing and business practices associated with horticulture operations.    |                       |              |  |      |                     |             |
| <b>Unit 10: Container and Field Crop Production</b>  | 1                     | 2            |  | 27.5 | 11                  |             |
| 1. Describe and apply principles of container and field crop production.                           |                       |              |  |      |                     |             |
| <b>Unit 11: Landscape Design, Installation, Construction, and Maintenance</b>                      | 1                     | 2            |  | 67.5 | 28                  |             |
| 1. Describe and apply principles of landscape design.  |                       |              |  |      |                     |             |
| 2. Describe and apply basic principles of landscape installation and construction.                 |                       |              |  |      |                     |             |
| 3. Describe and apply principles of landscape maintenance.   |                       |              |  |      |                     |             |
| <b>Unit 12: Turfgrass Installation and Maintenance</b>   | 1                     | 2            |  | 15   | 6                   |             |
| 1. Describe and apply principles of turfgrass installation.  |                       |              |  |      |                     |             |
| 2. Describe and apply principles of turfgrass maintenance.   |                       |              |  |      |                     |             |
| <b>Unit 13: Pomology Production</b>  | 1                     |              |  | 10   | 5                   |             |
| 1. Describe and apply principles of fruit and berry production.                                    |                       |              |  |      |                     |             |
| <b>Unit 14: Principles of Floristry</b>  | 1                     | 2            |  | 22.5 | 9                   |             |
| 1. Describe and apply principles of floristry.   |                       |              |  |      |                     |             |
| <b>Active Items</b>  |                       |              |  |      | <b>80</b>           |             |
| <b>Field-Test Items</b>  |                       |              |  |      | <b>20</b>           |             |
| <b>TOTAL ASSESSED ITEMS</b>  |                       |              |  |      | <b>100</b>          |             |