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Horticulture Blueprint Information

Beginning in Fall 2016,

Year 1 will be taught and assessed using the 2016 Horticulture.*

Year 2 will be taught and assessed using the 2011 Horticulture.*

2011 Horticulture curriculum will be retired July 1, 2017.*

*This assessment plan is subject to change based on funding and policy changes/updates. Information for test coordinators will be disseminated on the ordering process for the national certification by the Research and Curriculum Unit at Mississippi State University.

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SEC – Horticulture Blueprints

This document contains the blueprints for the concentration areas in secondary Horticulture.

Course Code(s)	Test Code	Program Name	Supplemental Materials
991400, 991402, 991403	10137Y1-2016	Horticulture	
991401, 991404, 991405	10137Y2-2011	Horticulture	

Curriculum	Perkins Assessment 2016-2017		Teacher Evaluation Pilot 2016-2017			
	Y1 Post-Test	Y2 Post-Test	Y1 Baseline	Y1 Post-Test	Y2 Baseline	Y2 Post-Test
Horticulture	MS-CPAS2*	MS-CPAS2*	NA*	NA*	NA*	NA*

* These assessments are subject to change based on funding and policy changes/updates. Information for test coordinators will be disseminated on the ordering process for the national certification by the Research and Curriculum Unit at Mississippi State University.



MS-CPAS2 Blueprint Summary

Assessment: Horticulture
Test Code: 10137Y1-2016
CIP Code: 010601
Course Codes: 991400, 991402, 991403
Type: CP

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:

Terms and Definitions	
Assessment:	This signifies the name of the assessment, which corresponds with the name of the pathway or program.
CIP Code:	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.
Test Code:	A unique code that serves to numerically identify a specific assessment
DOK Levels:	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: <i>1 = Recall and Reproduction, 2 = Skills and Concepts, 3 = Short-term Strategic Thinking</i> Some postsecondary programs will not use DOK levels until the next revision.
Instructional	The total number of hours assigned to a unit per the pathway's curriculum
Total Items:	The total number of items assigned to each unit on the assessment. It is calculated as follows: <i>(Unit Instructional Hours / Total Instructional Hours) * Total Active Items</i>
Active Items:	The number of items on the assessment that will be graded
Field-test Items:	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.
Total Assessed Items:	The total number of items on the given assessment. It is calculated as follows: <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.



Assessment: Horticulture	DOK Level(s)			Instructional Hours	Total Items
Test Code: 10137Y1-2016					
CIP Code: 010601					
Total Hours: 207					
Unit 1: Horticulture Orientation and Leadership Development	1		3	15	6
1. Not on MS-CPAS2 2. Develop life and career skills for success in the 21st century. 3. Not on MS-CPAS2. 4. Examine the concept of leadership. 5. Describe the role of ethics and values in establishing and building a successful career.					
Unit 2: Horticulture Safety	1			15	6
1. Demonstrate basic and fundamental safety practices related to horticulture enterprises.					
Unit 3: Basic Plant and Soil Science (Plant Structure and Growth)	1	2		52	20
1. Explore plant structure and their functions. 2. Apply systems of plant classification. 3. Describe and apply principles of plant growth media.					
Unit 4: Horticulture Structures		2		20	8
1. Describe the characteristics and features of different types of greenhouses.					
Unit 5: Plant Propagation		2		33	13
1. Distinguish between sexual and asexual reproduction.					
Unit 6: Principles of Pest Management	1	2		28	11
1. Assess the effects of pests on plant production. 2. Identify, describe, and apply pesticide safety procedures.					
Unit 7: Greenhouse Crops and Olericulture Production		2		44	16
1. Describe and apply principles of greenhouse crop production. 2. Describe and apply principles of olericulture production.					
Active Items					80
Field-Test Items					20
TOTAL ASSESSED ITEMS					100



MS-CPAS2 Blueprint Summary

Assessment: Horticulture
Test Code: 10137Y2-2011
CIP Code: 010601
Course Codes: 991401, 991404, 991405
Type: CP

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:

Terms and Definitions	
Assessment:	This signifies the name of the assessment, which corresponds with the name of the pathway or program.
CIP Code:	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.
Test Code:	A unique code that serves to numerically identify a specific assessment
DOK Levels:	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: <i>1 = Recall and Reproduction, 2 = Skills and Concepts, 3 = Short-term Strategic Thinking</i> Some postsecondary programs will not use DOK levels until the next revision.
Instructional Hours:	The total number of hours assigned to a unit per the pathway's curriculum
Total Items:	The total number of items assigned to each unit on the assessment. It is calculated as follows: <i>(Unit Instructional Hours / Total Instructional Hours) * Total Active Items</i>
Active Items:	The number of items on the assessment that will be graded
Field-test Items:	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.
Total Assessed Items:	The total number of items on the given assessment. It is calculated as follows: <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.



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