

SEC – Forestry Blueprints

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

| Course Code(s) | Test Code | Program Name | Supplemental Materials/Notes |
|---------------------------|--------------|--------------|------------------------------|
| 991500, 991502, 991503 | 10131Y1-2014 | Forestry | |
| 991501, 991504, 991505 | 10131Y2-2014 | Forestry | |

| Curriculum | Perkins Assessment 2016-17 | | Teacher Evaluation Pilot 2016-17 | | | |
|------------|----------------------------|--------------|----------------------------------|--------------|-------------|--------------|
| | Y1 Post-Test | Y2 Post-Test | Y1 Baseline | Y1 Post-Test | Y2 Baseline | Y2 Post-Test |
| Forestry | 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: Forestry
Test Code: 10131Y1-2014
CIP Code: 030511
Course Codes: 991500, 991502, 991503
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: Forestry | DOK Level(s) | | | Instructional Hours | Total Items |
|---|--------------|---|---|---------------------|-------------|
| | 1 | 2 | 3 | | |
| Test Code: 10131Y1-2014 | | | | | |
| CIP Code: 030511 | | | | | |
| Total Hours: 158 | | | | | |
| Unit 3: Forest Safety | 1 | 2 | | 15 | 8 |
| 1. Explain forest safety practices. 2. Describe forest environmental hazards, including heat, cold, plants, insects, wildlife, and topographical hazards. 3. Demonstrate forest safety practices. | | | | | |
| Unit 4: Tree Growth and Stand Development | 1 | 2 | | 7.5 | 4 |
| 1. Explain tree physiology. 2. Explain forest stand development. 3. Discuss advances in biotechnology for forestry applications. | | | | | |
| Unit 5: Dendrology | 1 | 2 | | 30 | 15 |
| 1. Explain the tree classification system. 2. Identify trees by characteristics. | | | | | |
| Unit 6: Forest Surveying and Mapping | | | | 37.5 | 19 |
| 1. Explain concepts of forest surveying. 2. Perform forestry surveying and mapping techniques. 3. Calculate acreage of forest tracts. | | | | | |
| Unit 7: Legal Land Descriptions | | | | 30 | 15 |
| 1. Describe the United States Public Land Survey System. 2. Identify information found on maps. 3. Apply principles of legal land description. | | | | | |
| Unit 8: Tree and Log Measurements | 1 | 2 | 3 | 37.5 | 19 |
| 1. Explain tree measurement techniques. 2. Perform volume measurement of standing timber and sawlogs. | | | | | |
| Active Items | | | | | 80 |
| Field-Test Items | | | | | 20 |
| TOTAL ASSESSED ITEMS | | | | | 100 |

MS-CPAS2 Blueprint Summary

Assessment: Forestry Y2
Test Code: 10131Y2-2014
CIP Code: 030511
Course Codes: 991501, 991504, 991505
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.

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| Terms and Definitions | |
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| 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> |

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| Assessment: Forestry Y2 | | | | | |
|--|---|---|---|----------|---------------|
| Test Code: 10131Y2-2014 | | | | | |
| CIP Code: 030511 | | | | DOK | Instructional |
| Total Hours: 173 | | | | Level(s) | Hours |
| Total Items | | | | | Total |
| Total Items | | | | | Items |
| Unit 12: Forest Management Practices | 1 | 2 | | 45 | 21 |
| 1. Explain forest management practices. | | | | | |
| 2. Apply forest management practices. | | | | | |
| Unit 13: Advanced Timber Cruising | 1 | 2 | | 52.5 | 24 |
| 1. Describe the different types of sampling techniques used in measuring standing timber including line plot, strip, and | | | | | |
| 2. Plan and conduct a timber cruise. | | | | | |
| Unit 14: Timber Marketing | 1 | 2 | | 15 | 8 |
| 1. Explain timber marketing procedures. | | | | | |
| 2. Describe conditions of sale and harvesting of timber. | | | | | |
| Unit 15: Timber Harvesting | 1 | 2 | | 15 | 7 |
| 1. Explain timber harvesting procedures. | | | | | |
| 2. Develop a timber harvesting plan. | | | | | |
| Unit 16: Reforestation | 1 | 2 | | 22.5 | 10 |
| 1. Explain reforestation practices. | | | | | |
| 2. Perform reforestation practices. | | | | | |
| Unit 17: Forest Fire Management | 1 | 2 | 3 | 22.5 | 10 |
| 1. Explain forest fire management practices. | | | | | |
| 2. Apply forest fire management techniques. | | | | | |
| Active Items | | | | | 80 |
| Field-Test Items | | | | | 20 |
| TOTAL ASSESSED ITEMS | | | | | 100 |