



RESEARCH & CURRICULUM UNIT
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Architecture and Drafting Blueprint Information

Beginning in Fall 2016,

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

Year 2 will be taught and assessed using the 2012 Architecture and Drafting.*

2012 Architecture and Drafting 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 – Architecture and Drafting Blueprints

This document contains the blueprints for the concentration areas in secondary Architecture and Drafting.

Course Code(s)	Test Code	Program Name
994300, 994302, 994303	10234Y1-2016	Architecture and Drafting Year 1
994301,994304,9 94305	10234Y2-2012	Architecture and Drafting Year 2
994301,994304,9 94305	10234PB-2012	Architecture and Drafting Year 2 PBA

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
Architecture and Drafting	MS-CPAS2*	PBA*	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: Architecture and Drafting Year 1
Test Code: 10234Y1-2016
CIP Code: 151301
Course Codes: 994300, 994302, 994303
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:
1 = Recall and Reproduction, 2 = Skills and Concepts, 3 = Short-term Strategic Thinking

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:
*(Unit Instructional Hours / Total Instructional Hours) * Total Active Items*

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:
Active Items + Field-test Items

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: Architecture and Drafting	DOK Level(s)			Instructional Hours	Total Items
	Test Code: 10234Y1-2016	CIP Code: 151301	Total Hours: 195		
Unit 1: Orientation and Safety	1				Not tested
Unit 2: Introduction to Drafting		2		25	10
1. Explain the purpose of technical drawing and freehand technical sketches 2. Create freehand technical sketches. 3. Identify and demonstrate drafting tools and media. 4. Demonstrate skills in mathematical concepts related to drafting technology.					
Unit 3: Lettering		2		10	6
1. Demonstrate the techniques of lettering, and construct uppercase Gothic letters and numerals.					
Unit 4: Geometric Construction		2		25	10
1. Define basic geometric shapes and terms. 2. Construct various geometric shapes using constructional techniques on a drawing table.					
Unit 5: Computer Aided Drafting (CAD)		2	3	30	12
1. Use CAD hardware and software. 2. Create text using appropriate style and size on a CAD system 3. Create a basic CAD drawing.					
Unit 6: Orthographic Projection		2	3	35	14
1. Describe terms, views, line types, and the spacing of views used in orthographic projections. 2. Construct principal views in orthographic projections. 3. Construct orthographic views using a CAD station.					
Unit 7: Dimensioning			3	15	6
1. Apply general rules, line types and notes for dimensioning per ANSI standards.					
Unit 8: Sectional Views			3	20	8
1. Demonstrate creating sectional views. 2. Construct a sectional view using CAD.					
Unit 9: Auxilliary Views		2		15	6
1. Demonstrate creating sectional views. 2. Construct a sectional view using CAD.					
Unit 10: Pictorial Drawings		2	3	20	8
1. Identify the different types of pictorial drawings. 2. Construct pictorial drawings. 3. Construct an isometric drawing on the CAD system.					
Unit 11: Machine Drafting				40	not tested
Active Items					80
Field-Test Items					20
TOTAL ASSESSED ITEMS					100

MS-CPAS2 Blueprint Summary

Assessment: Architecture and Drafting Year 2
Test Code: 10234Y2-2012
CIP Code: 151301
Course Codes: 994301,994304,994305
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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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:
1 = Recall and Reproduction, 2 = Skills and Concepts, 3 = Short-term Strategic Thinking

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:

$$(Unit\ Instructional\ Hours / Total\ Instructional\ Hours) * Total\ Active\ Items$$

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:
Active Items + Field-test Items

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Assessment: Architecture and Drafting	DOK Level(s)			Instructional Hours	Total Items
	Test Code: 10234Y2-2012	1	2		
CIP Code: 151301					
Total Hours: 165					
Unit 12: Architectural Drafting Math	1	2	3	25	12
1. Calculate linear measurements. 2. Read and interpret the architect and engineering scale. 3. Calculate residential square footage. 4. Employ the adjustable triangle to lay out angles. 5. Calculate and apply spacial requirements for residential design. 6. Estimate material for a project.					
Unit 13: Residential Architectural Drafting I	1	2		70	34
1. Produce sketches in planning the three main residential areas. 2. Produce an architecturally correct floor plan. 3. Produce an architecturally correct foundation plan. 4. Draw, dimension, and label an exterior wall section. 5. Draw and not exterior elevations.					
Unit 14: Residential Architectural Drafting II	1	2	3	70	34
1. Product an electrical, plumbing, or HVAC plan. 2. Develop a residential plot/site plan					
Active Items					80
Field-Test Items					20
TOTAL ASSESSED ITEMS					100

MS-CPAS2 Blueprint Summary

Assessment: Architecture and Drafting Year 2 PBA
Test Code: 10234PB-2012
CIP Code: 151301
Course Codes: 994301,994304,994305
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:

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Assessment: Architecture and Drafting	DOK Level(s)			Instructional Hours
Test Code: 10234PB-2012				
CIP Code: 151301				
Total Hours: 165				
Unit 12: Architectural Drafting Math	1	2	3	25
1. Calculate linear measurements. 2. Read and interpret the architect and engineering scale. 3. Calculate residential square footage. 4. Employ the adjustable triangle to lay out angles. 5. Calculate and apply spacial requirements for residential design. 6. Estimate material for a project.				
Unit 13: Residential Architectural Drafting I	1	2		70
1. Produce sketches in planning the three main residential areas. 2. Produce an architecturally correct floor plan. 3. Produce an architecturally correct foundation plan. 4. Draw, dimension, and label an exterior wall section. 5. Draw and note exterior elevations.				
Unit 14: Residential Architectural Drafting II	1	2	3	70
1. Produce an electrical, plumbing, or HVAC plan. 2. Develop a residential plot/site plan.				