

MS-CPAS Blueprint Summary

Assessment: Ophthalmic Technology
Test Code: 20877Y0-2010
CIP Code: 511801
Course Codes:
Type: PS

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

Term and Definition	
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-CPAS Blueprint Summary, please contact the Research and Curriculum Unit by phone at 1.866.901.7433 or by e-mail at helpdesk@rcu.msstate.edu.

Assessment: Ophthalmic Technology	DOK Level(s)			Instructional Hours	Total Items
Test Code: 20877Y0-2010					
CIP Code: 511801					
Total Hours: 21					
OPT 1113: Ophthalmic Optics I	1	2		3	12
1. Discuss the structure and function of the eye. 2. Discuss principles of light. 3. Explain conditions of the human eye. 4. Interpret the ophthalmic prescription. 5. Discuss the lens clock. 6. Differentiate the types of multifocal lenses. 7. Discuss factors affecting lenses.					
OPT 1123: Ophthalmic Optics II	1	2		3	12
1. Explain positive and negative cylinders. 2. Explain optical effects related to decentration. 3. Determine the effects of the lens as it is positioned before the eye. 4. Explain procedures to determine pupillary distance. 5. Explain the effects of prisms on an ophthalmic lens. 6. Discuss basic knowledge of frame selection.					
OPT 1313: Laboratory Management and Inventory Control	1	2		3	11
1. Discuss laboratory management. 2. Discuss laboratory safety as related to ophthalmic technology. 3. Describe and use inventory and laboratory management software. 4. Perform mathematical calculation related to optics.					
OPT 1413: Ophthalmic Dispensing I	1	2		3	12
1. Discuss the basic frame parts used in eyewear. 2. Develop skills in frame selection. 3. Explain lens positioning in the frame. 4. Explain the techniques of inserting the lens in the frame to achieve a neat professional appearance. 5. Summarize the art of fitting the frame to a client. 6. Explain the lens design and proper fitting techniques of a progressive lens.					
OPT 2423: Ophthalmic Dispensing II	1	2		3	11
1. List lens and frame types that satisfy the prescription requirements. 2. Discuss lens tints as related to the client's needs and Rx requirements. 3. Determine information relative to the final Rx. 4. Explain business communication skills.					
OPT 2433: Ophthalmic Dispensing III	1	2		3	11
1. Compare the optical difference between special and regular lenses. 2. Discuss the special needs client. 3. Discuss selling techniques. 4. Discuss the relationship between the wholesale supplier and the retailer. 5. Discuss employability skills.					
OPT 2513: Optical Theory and Instrumentation	1	2	3	3	11
1. Describe the action of a light ray as it passes through an optical surface. 2. Discuss lens design. 3. Discuss prisms. 4. Describe the effect of near addition. 5. Examine vertical prismatic imbalance.					
Active Items					80
Field-Test Items					20
TOTAL ASSESSED ITEMS					100