

Tool Kit to Determine Students' College and Career Ready Designation under the College and Career Readiness and College Completion Act of 2013



Maryland State Department of Education

Published: November 2018

Revised: December 2018

Larry Hogan
Governor

Maryland State Board of Education
Justin M. Hartings, Ph.D., President

Chester E. Finn, Jr., Ed.D.
Michele Jenkins Guyton, Ph.D.
Vermelle Greene, Ph.D.
Stephanie R. Iszard, M.Ed.
Rose Maria Li, MBA, Ph.D.
Dr. Joan Mele-McCarthy, D.A., CCC-SLP

Michael Phillips
Jean C. Halle
David M. Steiner, Ph.D.
Brigadier General (BG) Warner Sumpter
Bryce Awono (student)

Karen B. Salmon, Ph.D.
Secretary-Treasurer of the Board
State Superintendent of Schools

Carol A. Williamson, Ed.D.
Deputy State Superintendent for
Teaching and Learning

Lynne M. Gilli, Ed.D.
Assistant State Superintendent
Division of Career and College
Readiness

Marcia A. Sprankle, Ed.D.
Assistant State Superintendent
Division of Curriculum,
Instructional Improvement, and
Professional Learning

Jennifer Judkins, Ed.D.
Assistant State Superintendent
Division of Assessment,
Accountability and
Information Technology

Contributors to the Toolkit

Nicassia Belton
Program Manager,
CTE Assessment Branch
Division of Career and
College Readiness

Jeanne-Marie S. Holly
Program Manager,
CTE Systems Branch
Division of Career and
College Readiness

Marquita D. Friday
Program Manager,
CTE Instructional Branch
Division of Career and College
Readiness

Cecilia J. Roe
Director of Instructional
Assessment and Professional
Learning
Division of Curriculum,
Instructional Improvement
and Professional Learning

Ava B. Spencer
English/Language Arts
Coordinator
Division of Curriculum,
Instructional Improvement
and Professional Learning

Debra L. Ward
Mathematics Coordinator
Division of Curriculum,
Instructional Improvement and
Professional Learning

The Maryland State Department of Education does not discriminate on the basis of age, ancestry/national origin, color, disability, gender identity/expression, marital status, race, religion, sex, or sexual orientation in matters affecting employment or in providing access to programs and activities and provides equal access to the Boy Scouts and other designated youth groups. For inquiries related to departmental policy, please contact: Equity Assurance and Compliance Office, Maryland State Department of Education, 200 West Baltimore Street, Baltimore, Maryland 21201-2595.

VOICE: 410-767-0426, TTY/TDD: 410-333-6442.

Initial Publication Fall 2016
Revised Fall 2017
Revised Fall 2018

Copyright © 2018 MSDE All Rights Reserved

Table of Contents

INTRODUCTION.....	1
OVERVIEW OF COLLEGE AND CAREER READINESS: A PARTNERSHIP WITH LOCAL SCHOOL SYSTEMS AND THEIR COMMUNITY COLLEGES	2
MARYLAND LOCAL EDUCATION AGENCIES OPTIONS FOR INITIAL CCR DETERMINATION	4
MARYLAND CAREER AND TECHNOLOGY EDUCATION PROGRAMS OF STUDY CCR-CCA OF 2013 - TECHNICAL SKILL ASSESSMENT CHART BY CAREER CLUSTERS AND PROGRAMS OF STUDY	7
TESTING ACCOMMODATIONS CHART FOR TECHNICAL SKILL ASSESSMENTS	31
ENGLISH/LANGUAGE ARTS GRADUATION AND CAREER AND COLLEGE READINESS REQUIREMENTS FOR EACH GRADUATING CLASS FROM 2019 TO 2020	39
MATHEMATICS GRADUATION AND CAREER AND COLLEGE READINESS REQUIREMENTS FOR EACH GRADUATING CLASS FROM 2019 TO 2020	42
FREQUENTLY ASKED QUESTIONS ENGLISH LANGUAGE ARTS (ELA) GRADUATION AND COLLEGE AND CAREER READINESS REQUIREMENTS.....	45
FREQUENTLY ASKED QUESTIONS MATHEMATICS GRADUATION AND COLLEGE AND CAREER READINESS REQUIREMENTS	52
ATTACHMENT 1 2018 - 2019 REVISIONS TO THE MEMORANDUM OF UNDERSTANDING BETWEEN MARYLAND ASSOCIATION OF COMMUNITY COLLEGES AND PUBLIC SCHOOL SUPERINTENDENTS ASSOCIATION OF MARYLAND	57

INTRODUCTION

The College and Career Readiness and College Completion Act of 2013 (CCR-CCA) established a number of requirements designed to increase college and career readiness as well as degree completion in Maryland. With a rapidly changing economy and a focus on increasing the percent of young adults with postsecondary degrees, the intent of the Act is to reduce or eliminate the need for students to enroll in remedial courses in college. Students, who enter college prepared, typically benefit from improved persistence and are more likely to complete a degree.

This tool kit provides information to assist local school system staff members in implementing the provisions of the CCR-CCA that relate to preparing students for both college and careers. Under §7-205.1 of the Education Article of the Annotated Code of Maryland: “Beginning with the 2015-2016 school year, all students shall be assessed using acceptable college placement cut scores no later than 11th grade to determine whether the student is ready for college-level credit-bearing course work in English Language Arts, Literacy and Mathematics.” It further requires that “transition courses or other instructional opportunities shall be delivered in the 12th grade to students who have not achieved College and Career Readiness (CCR) by the end of the 11th grade. The implementation of transition courses or other instructional opportunities... shall include an assessment or reassessment of the student after completion of the course [or opportunity]; and may not preclude or replace enrollment in a course otherwise required for graduation from high school.” The information provided in this tool kit will assist the local school system in designating students as College and Career Ready and identifying options and requirements for students who are not ready.

This document is available on the Maryland State Department of Education’s website. If you have any questions, please refer them to the MSDE staff members listed before each section of the tool kit.

Overview of College and Career Readiness: A Partnership with Local School Systems and their Community Colleges

The College and Career Readiness and College Completion Act of 2013 (CCR-CCA) requires Maryland to prepare all students for college and careers upon graduation from high school. The goal in the law states "at least 55% of Maryland's adults aged 25 to 64 years will hold at least an associate's degree by 2025." For local school systems, this goal can best be achieved by building on the close relationships already established between the school systems and the local community colleges (see Attachment 1 - Memorandum of Understanding Between Maryland Association of Community Colleges and Public School Superintendents Association of Maryland, page 56).

Community colleges play a critical role in Maryland education as the "next step" for large numbers of high school graduates as:

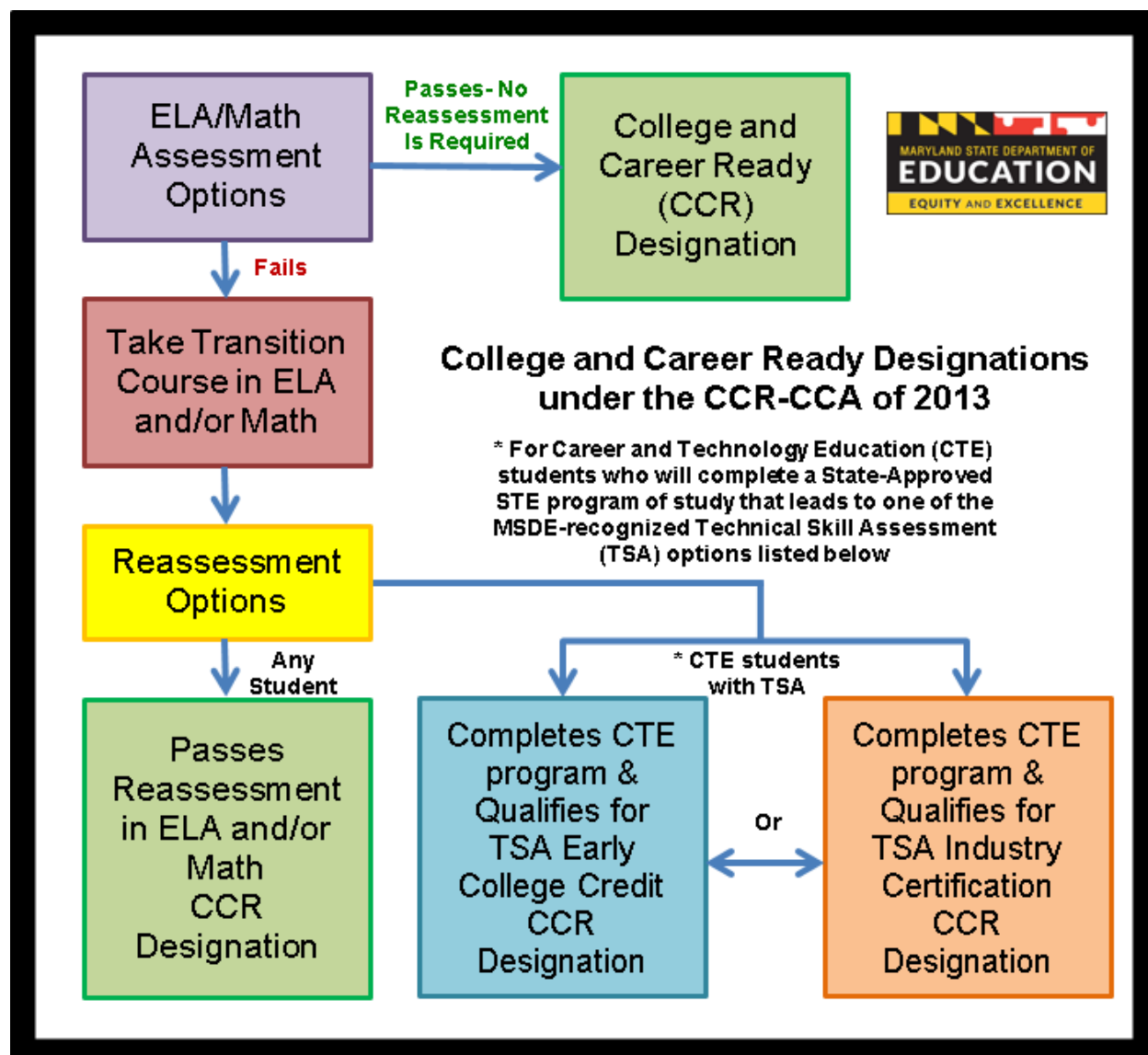
- the avenue for specific career credentialing through robust AA degrees,
- an affordable start for credit-transfer to a four-year college and a bachelor's degree,
- a point of return for those seeking career changes and/or advancement,
- a source of enrichment and interest-based learning in a culture of life-long learning.

Students who have not yet met the CCR designation by the end of 11th grade will continue to work toward this goal in their senior year. Students will be enrolled in transition courses or other learning opportunities prior to reassessment at the end of the 12th grade to be designated CCR.

Career/Technology Program (CTE) option for CCR designation:

CTE students are expected to meet the CCR designation in the same manner, with the same options as other students; however, if they *complete* a State-Approved Career and Technology Education Program of Study, they have an *additional reassessment option*: a Technical Skill Assessment, recognized by MSDE, leading to early college credit, or to a license or an industry certification.

The following chart illustrates this option:



These varied options support all students in their progress toward college and career readiness (CCR). Each provides students a path that is ambitious but attainable, while respecting their goals, talents, and interests. Graduates must also be aware of the admission requirements of the colleges to which they apply as the acceptable scores for entry vary among two- and four-year colleges.

These standards represent higher expectations for many high school graduates. The partnership of local school systems and their community colleges gives clear academic targets and, as needed, articulated learning supports prior to graduation. Achieving CCR standards positions students for entry into credit-bearing college courses. The result is an economy of time and resources for their future success.

Maryland Local Education Agencies Options for Initial CCR Determination

Please refer questions to:

Marcia A. Sprankle, Ed.D.
Assistant State Superintendent
Division of Curriculum, Instructional Improvement, and Professional Learning
Telephone: 410-767-0315
Email: Marcia.Sprankle@maryland.gov

Maryland Local Education Agencies Options for Initial CCR Determination

(The required score depends on the year in which the student first took the CCR assessment.)

English Language Arts (ELA)

Assessment Options	2017-2019
Assessment	Score
SAT • Evidence Based Reading and Writing Section (EBRW)	480+
ACT • Average of English and Reading Subject Tests	21+
Accuplacer • Reading • Writing • Sentence Skills	<ul style="list-style-type: none"> • Reading 79+ • Writing 6+ • Sentence Skills 90+ Next Generation Accuplacer -Scores TBD
AP • English Language and Composition • English Literature and Composition	3+
IB • Language A • Literature SL or HL	4+
Maryland Comprehensive Assessment Program (MCAP) • English 10 • English 11	4+

Mathematics

Assessment Options	2017-2019
Assessment	Score
SAT • Mathematics Section	530+
ACT • Math Subject Test	21+
Accuplacer • College Level Mathematics	45+ Next Generation Accuplacer -Scores TBD
AP • AB Calculus • BC Calculus • Statistics	3+
IB • Mathematics SL • Mathematics HL • Further Mathematics	4+
Maryland Comprehensive Assessment Program (MCAP) • Algebra II • Geometry*	4+

* The Geometry assessment may be used as a no-cost CCR assessment for 11th grade students enrolled in Geometry. Eleventh grade students who earn a score of 4 or higher on the Geometry assessment are not required to take a mathematics transition course or senior year reassessment. For 11th graders enrolled in Geometry who take PARCC, a score of 4 or 5 does not indicate placement in a college credit-bearing course.

Additional CCR Determination Options

Dual Enrollment	Students who have been granted permission to take and are enrolled in a college-level credit-bearing mathematics/ELA course by the end of their junior year are considered CCR and do not have to take a CCR assessment.
Local Agreements	LSSs may use alternate means for determining CCR if an agreement exists between the LSS and a local community college that allows students to take college-level credit-bearing mathematics/ELA coursework using different metrics.
GPA	LSSs may use : “The verified cumulative unweighted high <i>school GPA of 3.0</i> or better ...to signify the college-readiness of the applicant; the GPA will have an expiration date of no less than 5 years, regarding its utility as a metric for college-readiness. As such, the applicant would not have to take the Accuplacer exam, or otherwise be restricted from registering for credit classes. This measure does not apply to grades earned in English as a Second Language (ESL) courses. The use of the <i>recommended 3.0 or higher high school GPA</i> as an alternative measure for college-readiness at all Maryland community colleges is in place as of Fall 2018 see page 58. A review of the metric will occur within three years of the implementation of the new alternative measure.”

Senior Year Reassessment Options

- All of the previously listed CCR determination options;
- An assessment agreed to via an agreement with a local community college; or
- For CTE students only, a Technical Skill Assessment recognized by MSDE leading to a license or an industry recognized certification or early college credit as noted on the CTE Technical Assessment Chart.

Considerations for students completing Career and Technology Programs

CTE students who are not designated CCR by the end of the 11th grade must:

- complete an appropriate transition course or other instructional opportunity in conjunction with the completion of a State-Approved CTE Program of Study.
- be reassessed by the end of the senior year. Reassessment options include all of the CCR Assessment Options previously described in the PSSAM/MACC MOU (p. 56), as well as the Career and Technology Education (CTE) Program Technical Skill Assessments that lead to a license or industry certification, or early college credit. A Technical Skill Assessment recognized by MSDE leading to a license or an industry certification is an additional reassessment option for CTE students only. (See the next section for complete details.)

Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 - Technical Skill Assessment Chart by Career Clusters and Programs of Study

Career and Technology Education (CTE) students are expected to meet the CCR designation in the same manner, with the same options as other students. However, if they complete a State-Approved Career and Technology Education Program of Study, they have an additional **reassessment option**: a Technical Skill Assessment (TSA), recognized by MSDE, leading to early college credit, or to a license or an industry certification. Students must qualify to receive the early college credit or industry credential based on the requirements listed in the following pages below. If a CTE completer qualifies for one of the CTE Technical Skill Assessment options prior to 11th grade, they are still required to take both the English/Language Arts and Mathematics assessments. The Technical Skill Assessment options are only considered to be reassessment options. CTE students may “bank” any of the TSAs that they qualify for prior to 11th grade in the event that they do not pass either the ELA or mathematics assessments. CTE Students who do not pass the ELA and/or mathematics assessments are still required to enroll in and complete a transition course or other instructional opportunity. Thus, CTE students may be designated CCR as long as they **complete their CTE program of study** and qualify for the associated industry credential or early college credit listed in Technical Skill Assessment Chart. Testing accommodations available for students with disabilities in accordance with the Americans with Disabilities Act (ADA) of 1990 are provided in the Technical Skill Assessment Chart. All numbers listed in the “ADA” field of the Technical Skill Assessment Chart correspond with accommodation information in the Testing Accommodations Chart for Technical Skill Assessments.

Please refer questions to:

Lynne M. Gilli, Ed.D.

Assistant State Superintendent

Division of Career and College Readiness

Maryland State Department of Education

Telephone: 410.767.0518

Email: lynne.gilli@maryland.gov

Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 - Technical Skill Assessment Chart by Career Clusters and Programs of Study

NOTE: These assessments only apply to students who are completing a State Approved Career and Technology Education (CTE) Program of Study. This document will be updated on an annual basis. *See the ADA accommodations chart beginning on page 31

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Arts, Media and Communication (AMC)	Graphic Communications (PrintED)	011001	2	Introduction to Graphic Communications assessment plus Graphic Design assessment	Students must pass the Introduction to Graphic Communications assessment plus one (1) specialty assessment from the following list: (1) Graphic Design; (2) Digital File Preparation/Digital File Output; (3) Offset Press: Operations/Binding and Finishing; (4) Digital Production and Printing; or (5) Screen Printing Technology	GAERF SkillsUSA: Career Essentials: Assessment
		011002	2	Graphic Communication assessment plus Digital File Preparation/Digital File Output assessment		
		011003	2	Graphic Communication assessment plus Offset Press assessment		
		011010	2	Graphic Communication assessment plus Digital Production and Printing assessment		
		011011	2	Graphic Communication assessment plus Screen Printing Technology assessment		
	011099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.		
	Interactive Media Production	011005	6	Adobe Dreamweaver Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	Adobe: Certification
		011006	6	Adobe Illustrator Certification		
		011007	6	Adobe InDesign Certification		
	011008	6	Adobe Photoshop Certification			
	011009	6	Adobe Premiere Pro Certification			
	011099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.		
	Audiovisual Communication and Broadcast Technologies	011005	6	Adobe Dreamweaver Certification	There are five certifications in Adobe Creative Suite. Students can obtain TSA by passing one of the following exams: Dreamweaver, Illustrator, InDesign, Photoshop or Premiere Pro.	Adobe: Certification
		011006	6	Adobe Illustrator Certification		
		011007	6	Adobe InDesign Certification		
011008		6	Adobe Photoshop Certification			
011009		6	Adobe Premiere Pro Certification			
011099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.			

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Business, Management and Finance (BMF)	Business Management	021007	1	Institute for the Assessment of the Skills and Knowledge of Business: Entrepreneurship/Management- NEW	The A*S*K Business Institute certification assessment in Entrepreneurship/ Management measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in 1, 2 or 3 sessions.	ASK Business Institute: Assessment of Skills and Knowledge for Business CollegeBoard: CLEP Exams CollegeBoard: AP Central CollegeBoard: AP Central
		021002	10	CLEP Principles of Management Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	
		021011	10	AP Microeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	
		021012	10	AP Macroeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	
		021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Accounting and Finance	021008	1	Institute for the Assessment of the Skills and Knowledge of Business: Finance-NEW	The A*S*K Business Institute certification assessment in Finance measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in 1, 2 or 3 sessions.	ASK Business Institute: Assessment of Skills and Knowledge for Business CollegeBoard: CLEP Exams CollegeBoard: AP Central CollegeBoard: AP Central
		021003	10	CLEP Finance and Accounting Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	
		021011	10	AP Microeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	
		021012	10	AP Macroeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	
		021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Business, Management and Finance (BMF)	Academy of Finance (NAF)	021006	S	NAF-Track Certification	NAF-Track Certification includes passing end of course exams, portfolio review, and internship requirements.	<u>NAFTRACK: Certified Hiring</u>
		021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Marketing	021009	1	Institute for the Assessment of the Skills and Knowledge of Business: Fundamental Marketing Concepts- NEW	The A*S*K Business Institute certification assessment in Fundamental Marketing Concepts measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in one, two or three sessions.	<u>ASK Business Institute: Assessment of Skills and Knowledge for Business</u>
		021004	10	CLEP Marketing Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	<u>CollegeBoard: CLEP Exams</u>
		021011	10	AP Microeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<u>CollegeBoard: AP Central</u>
		021012	10	AP Macroeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	<u>CollegeBoard: AP Central</u>
	Business Administrative Services	021010	1	Institute for the Assessment of the Skills and Knowledge of Business: Fundamental Business Concepts- NEW	The A*S*K Business Institute certification assessment in Fundamental Business Concepts measures technical skills at the occupational level and includes items which gauge factual and theoretical knowledge. This assessment consists of a written assessment that can be administered in 1, 2 or 3 sessions.	<u>ASK Business Institute: Assessment of Skills and Knowledge for Business</u>
		021005	6	Microsoft Office Specialist Certification	Pass both the Microsoft Office Word and Excel exams to earn the MOS certification	<u>Microsoft Office Specialist Certification</u>
		021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Management Information Systems	021005	6	Microsoft Office Specialist Certification	Pass both the Microsoft Office Word and Excel exams to earn the MOS certification	<u>Microsoft Office Specialist Certification</u>
		021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Business, Management and Finance (BMF)	Business Marketing and Marketing Management	021004	10	CLEP Marketing Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	CollegeBoard: CLEP Exams
		021011	10	AP Microeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	CollegeBoard: AP Central
		021012	10	AP Macroeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	CollegeBoard: AP Central
		021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Accounting and Business/Finance Services	021003	10	CLEP Finance and Accounting Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	CollegeBoard: CLEP Exams
		021011	10	AP Microeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	CollegeBoard: AP Central
		021012	10	AP Macroeconomics Exam	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	CollegeBoard: AP Central
		021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Business Administration and Management	021005	6	Microsoft Office Specialist Certification	Pass both the Microsoft Office Word and Excel exams to earn the MOS certification	Microsoft Office Specialist Certification
		021002	10	CLEP Principles of Management Assessment	Depending on the college, students may be eligible to earn college credit with a score of 50 or better on the CLEP exam.	CollegeBoard: CLEP Exams
		021099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Construction and Development (CD)	Construction Design and Management	031001	6	Autodesk AutoCAD Certification	Students are required to pass Autodesk's AutoCAD or Revit certification assessments	<u>Autodesk Foundation</u>
		031002	6	Autodesk Revit Certification		
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Construction Trades Professions: Masonry	031004	16	Core plus Level 1 Masonry assessment	Pass the National Center for Construction Education and Research (NCCER) – Core: Intro Craft Skills and Level I assessment in the trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
	Construction Trades Professions: Carpentry	031005	16	Core plus Level 1 Carpentry assessment	Pass the National Center for Construction Education and Research (NCCER) –Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
	Construction Trades Professions: Electrical	031006	16	Core plus Level 1 Electrical assessment	Pass the National Center for Construction Education and Research (NCCER) –Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
	Construction Trades Professions: Plumbing	031007	16	Core plus Level 1 Plumbing assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Construction and Development (CD)	Construction Maintenance Professions: Industrial Maintenance	031008	16	Core plus Level 1 Industrial Maintenance assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Construction Maintenance Professions: HVAC	031009	16	Core plus Level 1 HVAC assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Construction Maintenance Professions: Welding	031010	16	Core plus Level 1 Welding assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Local Construction Trades: Masonry	031004	16	Core plus Level 1 Masonry assessment	Pass the National Center for Construction Education and Research (NCCER) – Core: Intro Craft Skills and Level I assessment in the trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
	Local Construction Trades: Carpentry	031005	16	Core plus Level 1 Carpentry assessment	Pass the National Center for Construction Education and Research (NCCER) –Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Construction and Development (CD)	Local Construction Trades: Electrical	031006	16	Core plus Level 1 Electrical assessment	Pass the National Center for Construction Education and Research (NCCER) –Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSA once they have passed course requirements and are eligible to receive college credit.	
	Local Construction Maintenance: Building/ Property Maintenance	031008	16	Core plus Level 1 Industrial Maintenance assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Local Construction Maintenance: HVAC	031009	16	Core plus Level 1 HVAC assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Local Construction Maintenance: Welding	031010	16	Core plus Level 1 Welding assessment	Pass the National Center for Construction Education and Research(NCCER) – Core: Intro Craft Skills and Level I assessment in trade area	<u>NCCER: Credentials & Registry</u>
		031099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
		031011	12	Certified Welding Certification- SMAW	The AWS Certified Welder program allows students to test to those procedures used in the structural steel, petroleum pipelines, sheet metal and chemical refinery welding industries and demonstrate proficiency with the following processes: (1) Shielded Metal Arc Welding (SMAW), (2) Gas Metal Arc Welding (GMAW), (3) Gas Metal Arc Welding - Short Circuit (GMAW-S), (4) Flux Cored Arc Welding (FCAW).	<u>American Welding Society</u>
		031012	12	Certified Welding Certification- GMAW		
		031013	12	Certified Welding Certification- GMAW-S		
		031014	12	Certified Welding Certification- FCAW		

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Consumer Services, Hospitality & Tourism (CSHT)	Local Construction Maintenance: Welding	031015	12	Certified Welding Certification- GTAW	The AWS Certified Welder program allows students to test to those procedures used in the structural steel, petroleum pipelines, sheet metal and chemical refinery welding industries and demonstrate proficiency with the following processes: (5) Gas Tungsten Arc Welding (GTAW), (6) Submerged Arc Welding (SAW), or (7) Brazing.	American Welding Society
		031016	12	Certified Welding Certification- SAW		
		031017	12	Certified Welding Certification- BZ		
	Careers in Cosmetology	041001	8	Cosmetology License	The MD State Board of Cosmetology requires students to pass both theory and practical exams to be licensed.	DLLR: Cosmetologist
	Barber/ Hairstylist	041002	8	Barber License	The MD State Board of Barbers requires students to pass both theory and practical exams to be licensed. (For existing programs only)	DLLR: Barbers
	Culinary Arts (ACF)	041004	1	Certified Fundamentals Cook (CFC) certification	Students are required to pass NOCTI written with at least a 70% and pass NOCTI practical with at least a 75%. Students must take both the written and performance tests.	American Culinary Federation: Certification Levels
		041005	1	Certified Fundamentals Pastry Cook (CFPC) certification		
		041099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Baking and Pastry Arts (ACF)	041004	1	Certified Fundamentals Cook (CFC) certification	Students are required to pass NOCTI written with at least a 70% and pass NOCTI practical with at least a 75%. Students must take both the written and performance tests.	American Culinary Federation: Certification Levels
		041005	1	Certified Fundamentals Pastry Cook (CFPC) certification		
041099		S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.		
Food and Beverage Management (ProStart)	041006	9	National ProStart Certificate of Achievement	Students must pass the Level I and Level II end-of-course exams and complete the 400 hour work-based learning (WBL) requirements.	National Restaurant Association: Exams	

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information	
Consumer Services, Hospitality & Tourism (CSHT)	Hospitality and Tourism Management	041007	14	Certified Hospitality Tourism Management Professional (CHTMP) certification	To earn the Certified Hospitality Tourism Management Professional (CHTMP), students must pass the end of course assessments for Year 1 and Year 2 courses, complete 100 hour work-based learning (WBL), and complete WBL requirements	AHLEI: High School Programs	
	Nail Specialist and Manicurist	041003	8	Nail Technician Certification	MD State Board Nail Technician Theory and Practical Exam administered by PSI. (For existing programs only)	DLLR: Cosmetologist	
	Restaurant, Culinary, and Catering Management	041006	9	National ProStart Certificate of Achievement	Students must pass the Level I and Level II end-of-course exams and complete the 400 hour work-based learning (WBL) requirements.	National Restaurant Association: Exams	
Environmental, Agricultural & Natural Resources (EANR)	Curriculum for Agricultural Sciences Education	051099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	Curriculum for Agricultural Science Education	
	Horticultural Services	051001	11	Certified Professional Horticulturalist (CPH) certification	Students are required to pass the Certified Professional Horticulturalist (CPH) assessment.	Maryland Nursery, Landscape, and Greenhouse Association	
	Environmental Studies/ Natural Resources	051099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.		
	Agricultural Sciences and Operations		051001	11	Certified Professional Horticulturalist (CPH) certification	Students are required to pass the Certified Professional Horticulturalist (CPH) assessment.	Maryland Nursery, Landscape, and Greenhouse Association
			051099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
			071011	S	Geographic Information System (GIS) certification	Pass the Spatial Technology and Remote Sensing (STARS) assessment to earn the Geographic Information System (GIS) certification.	Digital Quest: Certification
			071012	17	ESRI ArcGIS Desktop certification	Pass the ArcGIS Desktop Entry assessment to earn the ESRI ArcGIS Certification.	Esri: ArcGIS Desktop Entry

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
EANR	Natural Resources and Conservation	051099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Health & Biosciences (HB)	Academy of Health Professions - Certified Nursing Assistant	061001	S	Certified Nursing Assistant (CNA)	Pass the teacher developed Certified Nursing Assistant assessment	<u>Maryland Board of Nursing</u>
		061002	3	Geriatric Nursing Assistant GNA	Pass the National Nurse's Aide Assessment Program (NNAAP) administered through Credential, a subsidiary of Pearson Vue Testing. Students must first hold the CNA certificate in order to be eligible to take the GNA exam	
		061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Academy of Health Professions - Pharmacy Technician	061003	15	Pharmacy Technician Certification - ExCPT exam	Students must pass exam for the Certification of Pharmacy Technicians (ExCPT) through the National Health Careers Association (NHA). To sit for the ExCPT exam students must be within no more than 30 days of successful completion of all requirements needed to obtain a high school diploma.	<u>Pharmacy Technician Certification (CPhT)</u>
		061004	21	Pharmacy Technician Certification - PTCB exam	Students must pass exam for Pharmacy Technician certification through the Pharmacy Technician Certification Board (PTCB). To sit for the PTCB exam, the student must be 18 years of age and a high school graduate.	<u>PTCB: Apply for CPhT</u>
		061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Academy of Health Professions - Dental Assisting	061005	20	Dental Assisting certification	Pass the Dental Assisting National Board of Radiation Health and Safety (RHS) and the Maryland General Exams (MDG). Certified to expose radiographs and in General Chairside procedures.	<u>DANB: Certified Dental Assistant (CDA)</u>
		061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Health & Biosciences (HB)	Academy of Health Professions - Clinical Medical Assistant	061006	15	Certified Clinical Medical Assistant (CCMA) certification	Students must pass the National Healthcareer's CCMA Certification Assessment	<u>Medical Assistant Certification (CCMA)</u>
		061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Academy of Health Professions - Physical Rehabilitation	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Academy of Health Professions - Allied Health Other Specialty	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Academy of Health Professions - Allied Health Intern	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Academy of Health Professions - Dual Enrollment	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Biomedical Science (PLTW)	061099	S	College Credit	Students are eligible to earn <u>college credit</u> from PLTW affiliate colleges and universities with a score of 6 or better on any of the end-of-course exams. Students are also eligible to earn up to 8 college credits from Stevenson University for BIO 113, BIO 113L and BIO 222 by doing the following: Completing the program, earning a GPA of 3.0 or higher in all courses, and receiving a score of 7 or better on the PLTW end-of-course assessments.	<u>PLTW</u>
061010		S	Biotechnician Assistant Credentialing Exam (BACE)	The Biotechnician Assistant Credentialing Exam (BACE) is an industry-recognized exam designed to assess core skills and knowledge sets identified by industry, and represented within the academic and performance standards of Biotechnology programs.	<u>Biotechnician Assistant Credentialing Exam</u>	

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Health & Biosciences (HB)	Health Professions/Allied Health Professions and Related Sciences	061001	S	Certified Nursing Assistant (CNA)	Pass the teacher developed Certified Nursing Assistant assessment	Maryland Board of Nursing
		061003	15	Pharmacy Technician Certification - ExCPT exam	Students must pass exam for the Certification of Pharmacy Technicians (ExCPT) through the National Health Careers Association (NHA). To sit for the ExCPT exam students must be within no more than 30 days of successful completion of all requirements needed to obtain a high school diploma.	Pharmacy Technician Certification (CPhT)
		061004	21	Pharmacy Technician Certification - PTCB exam	Students must pass exam for Pharmacy Technician certification through the Pharmacy Technician Certification Board (PTCB). To sit for the PTCB exam, the student must be 18 years of age and a high school graduate.	Become a PTCB® CPhT
		061005	20	Dental Assisting certification	Pass the Dental Assisting National Board of Radiation Health and Safety (RHS) and the Maryland General Exams (MDG). Certified to expose radiographs and in General Chairside procedures.	DANB: Certified Dental Assistant (CDA)
		061006	15	Certified Clinical Medical Assistant (CCMA) certification	Students must pass the National Health Careers CCMA Certification Assessment	Medical Assistant Certification (CCMA)
		061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Biotechnology	061099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Biotechnology	061010	S	Biotechnician Assistant Credentialing Exam (BACE)	The Biotechnician Assistant Credentialing Exam (BACE) is an industry-recognized exam designed to assess core skills and knowledge sets identified by industry, and represented within the academic and performance standards of Biotechnology programs.	Biotechnician Assistant Credentialing Exam

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Human Resource Services (HRS)	Fire, and Emergency Medical Training/ High School Cadet (MFRI)	071001	19	Emergency Medical Technician (EMT) certification	Student must pass one of the following assessments: (1) EMT, (2) EMR, (3) Fire Fighter I, (4) Firefighter II (must pass Firefighter I first), (5) Truck Company Fireground Operations, (6) Rescue Tech – Site Operations, (7) Rescue Technician – Vehicle and Machinery Extrication, and/or (8) Haz-Mat Operations	Maryland Fire and Rescue Institute
		071002	19	Emergency Medical Responder (EMR) certification		
		071003	19	Fire Fighter I certification		
		071004	19	Fire Fighter II certification		
		071005	19	Truck Company Fireground Ops certification		
		071006	19	Rescue Tech - Site Ops certification		
		071007	19	Rescue Tech - Vehicle and Machinery Extraction certification		
		071008	19	Hazardous Material Operations certification		
	071099	S	College credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.		
	Teacher Academy of Maryland	071009	7	ParaPro	Student must achieve a minimum score of 455 on ParaPro exam	ParaPro Assessment
		071010	7	PraxisCORE	Student must achieve passing scores in Reading - 156, Writing - 162, and Math – 150	The Praxis® Tests
		071099	S	College credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Homeland Security & Emergency Preparedness – Information/ Communications Technology	071011	S	Geographic Information System (GIS) certification	Pass the Spatial Technology and Remote Sensing (STARS) assessment to earn the Geographic Information System (GIS) certification (valid until 2020).	Digital Quest: Certification
071012		17	ESRI ArcGIS Desktop certification	Pass the ArcGIS Desktop Entry assessment to earn the ESRI ArcGIS Certification.	ArcGIS Desktop Entry	

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Human Resource Services (HRS)	Homeland Security & Emergency Preparedness - Homeland Security Sciences	071099	S	College credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Homeland Security & Emergency Preparedness - Criminal Justice/Law Enforcement Pathway	071099	S	College credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Criminal Justice, Law and Society	071099	S	College credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Early Childhood Education/Child Care	071013	18	Child Development Associate certification	Candidates do not receive a pass or fail score on the CDA Exam and Verification Visit. Rather, the Council for Professional Recognition comprehensively evaluates how candidates score in each of the thirteen CDA Functional Areas on the CDA Exam and the CDA Verification Visit to make a credentialing decision	<u>Child Development Associate (CDA) Credential</u>
		071014	S	90 Hour Certificate	Students must complete 90 hours of Early Childhood courses (Child Growth and Development & Methods and Materials) and earn a grade of "B" or better.	
IT	Database Academy (Oracle) - Java Programming	081002	3	Java Foundations Certified Junior Associate certification	Students must pass either the Java Foundations Certified Junior Associate exam or Database Foundations Junior Associate exam	<u>Oracle Academy</u>
	Database Academy (Oracle) - Database Management	081003	3	Database Foundations Junior Associate certification	Students must pass either the Java Foundations Certified Junior Associate exam or Database Foundations Junior Associate exam	<u>Oracle Academy</u>

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information	
Information Technology (IT)	Computer Science (PLTW)	081020	S	AP Computer Science Principles	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	CollegeBoard: AP Courses	
		081021	S	AP Computer Science A	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	CollegeBoard: AP Courses	
		081099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.		
	IT Networking Academy CISCO - CCENT	081004	3	3	CompTIA ITF	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	Cisco: Certifications CompTIA's Academy Partner Program
		081005	3	3	CompTIA A+		
		081006	3	3	CompTIA Network+		
		081007	3	3	CompTIA Security+		
		081008	3	3	CompTIA PenTest+		
		081009	3	3	CompTIA Linux+		
		081010	3	3	LPI Linux Essentials		
		081011	3	3	Cisco CCT		
		081012	3	3	Cisco CCENT		
		081013	3	3	Cisco CCNA RS		
	081014	3	3	Cisco CCNA Security			
	081015	3	3	Cisco CCNA Cyber Ops			
	081099	S	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.		
IT Networking Academy CISCO - CCNA Routing and Switching	081004	3	3	CompTIA ITF	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	Cisco: Certifications CompTIA's Academy Partner Program	
	081005	3	3	CompTIA A+			
	081006	3	3	CompTIA Network+			
	081007	3	3	CompTIA Security+			
	081008	3	3	CompTIA PenTest+			
	081009	3	3	CompTIA Linux+			
	081010	3	3	LPI Linux Essentials			
	081011	3	3	Cisco CCT			
	081012	3	3	Cisco CCENT			
	081013	3	3	Cisco CCNA RS			
	081014	3	3	Cisco CCNA Security			
	081015	3	3	Cisco CCNA Cyber Ops			

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Information Technology (IT)	IT Networking Academy CISCO - CCNA Routing and Switching	081099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	IT Networking Academy CISCO - CCNA Security	081004	3	CompTIA ITF	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<u>Cisco: Certifications</u> <u>CompTIA's Academy Partner Program</u>
		081005	3	CompTIA A+		
		081006	3	CompTIA Network+		
		081007	3	CompTIA Security+		
		081008	3	CompTIA PenTest+		
		081009	3	CompTIA Linux+		
		081010	3	LPI Linux Essentials		
		081011	3	Cisco CCT		
		081012	3	Cisco CCENT		
		081013	3	Cisco CCNA RS		
		081014	3	Cisco CCNA Security		
		081015	3	Cisco CCNA Cyber Ops		
		081099	S	College Credit		
	IT Networking Academy CISCO - CCNA Cyber Ops	081004	3	CompTIA ITF	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	<u>Cisco: Certifications</u> <u>CompTIA's Academy Partner Program</u>
081005		3	CompTIA A+			
081006		3	CompTIA Network+			
081007		3	CompTIA Security+			
081008		3	CompTIA PenTest+			
081009		3	CompTIA Linux+			
081010		3	LPI Linux Essentials			
081011		3	Cisco CCT			
081012		3	Cisco CCENT			
081013		3	Cisco CCNA RS			
081014	3	Cisco CCNA Security				
081015	3	Cisco CCNA Cyber Ops				
081099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.			

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Information Technology (IT)	Computer and Information Sciences	081001	S	NAF-Track Certification	NAF-Track Certification includes passing end of course exams, portfolio review, and internship requirements.	NAFTrack Certification
		081004	3	CompTIA ITF	Students are required to pass one or more of the following: (1) CompTIA ITF, (2) CompTIA A+, (3) CompTIA Network+, (4) Cisco CCT, (5) Cisco CCENT, (6) Cisco CCNA RS, (7) Cisco CCNA Security, (8) CompTIA Security+, (9) NDG Linux Essentials, (10) CompTIA Linux+, (11) Cisco CCNA Cyber Ops, (12) CompTIA PenTest+	Cisco: Certifications CompTIA's Academy Partner Program
		081005	3	CompTIA A+		
		081006	3	CompTIA Network+		
		081007	3	CompTIA Security+		
		081008	3	CompTIA PenTest+		
		081009	3	CompTIA Linux+		
		081010	3	LPI Linux Essentials		
081020	S	AP Computer Science Principles	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	CollegeBoard: AP Courses		
081021	S	AP Computer Science A	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	CollegeBoard: AP Courses		
081099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.			
Manufacturing, Engineering & Technology (MET)	Pre- Engineering (PTLW)	031001	S	Autodesk AutoCAD Certification	Students are required to pass Autodesk's AutoCAD or Revit certification assessments	Autodesk Foundation
		031002		Autodesk Revit Certification		
		081020	S	AP Computer Science Principles	Depending on the college, students may be eligible to earn college credit with a score of 3 or better on the AP exam.	CollegeBoard: AP Courses
	091099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.		
	Manufacturing Engineering Technology (NIMS) - Machining Operations	091002	4	Job Planning, Benchwork & Layout certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	NIMS: Certification
		091003	4	Manual Milling Skills I certification with Measurement, Materials & Safety exam		
091004		4	Turning Operations: Turning Between Centers certification with Measurement, Materials & Safety exam			

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Manufacturing, Engineering & Technology (MET)	Manufacturing Engineering Technology (NIMS) - Machining Operations	091005	4	NIMS Turning Operations: Turning Chucking Skills certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	NIMS: Certification
		091006	4	NIMS Grinding Skills I certification with Measurement, Materials & Safety exam		
		091007	4	NIMS Drill Press Skills I certification with Measurement, Materials & Safety exam		
		091008	4	NIMS CNC Turning: Programming Setup & Operations certification with Measurement, Materials & Safety exam		
		091009	4	NIMS CNC Milling: Pgm Setup & Operations certification with Measurement, Materials & Safety exam		
		091010	4	NIMS CNC Turning: Operations certification with Measurement, Materials & Safety exam		
		091011	4	NIMS CNC Milling: Operations certification with Measurement, Materials & Safety exam		
		091099	S	College Credit		
	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091002	4	Job Planning, Benchwork & Layout certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	NIMS: Certification
		091003	4	Manual Milling Skills I certification with Measurement, Materials & Safety exam		
		091004	4	Turning Operations: Turning Between Centers certification with Measurement, Materials & Safety exam		
091005		4	NIMS Turning Operations: Turning Chucking Skills certification with Measurement, Materials & Safety exam			
091006		4	NIMS Grinding Skills I certification with Measurement, Materials & Safety exam			
091007		4	NIMS Drill Press Skills I certification with Measurement, Materials & Safety exam			

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Manufacturing, Engineering & Technology (MET)	Manufacturing Engineering Technology (NIMS) - CNC Programming and Operations	091008	4	NIMS CNC Turning: Programming Setup & Operations certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	NIMS: Certification
		091009	4	NIMS CNC Milling: Pgm Setup & Operations certification with Measurement, Materials & Safety exam		
		091010	4	NIMS CNC Turning: Operations certification with Measurement, Materials & Safety exam		
		091011	4	NIMS CNC Milling: Operations certification with Measurement, Materials & Safety exam		
		091099	S	College Credit		
	Manufacturing Engineering Technology (NIMS) - Multi-System Operations	091002	4	Job Planning, Benchwork & Layout certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	NIMS: Certification
		091003	4	Manual Milling Skills I certification with Measurement, Materials & Safety exam		
		091004	4	Turning Operations: Turning Between Centers certification with Measurement, Materials & Safety exam		
		091005	4	NIMS Turning Operations: Turning Chucking Skills certification with Measurement, Materials & Safety exam		
		091006	4	NIMS Grinding Skills I certification with Measurement, Materials & Safety exam		
091007		4	NIMS Drill Press Skills I certification with Measurement, Materials & Safety exam			

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Manufacturing, Engineering & Technology (MET)	Manufacturing Engineering Technology (NIMS) - Multi-System Operations	091008	4	NIMS CNC Turning: Programming Setup & Operations certification with Measurement, Materials & Safety exam	Students pass the Measurement, Materials & Safety exam and one of the following: (1) Job Planning, Benchwork & Layout, (2) Manual Milling Skills I, (3) Turning Operations: Turning Between Centers, (4) Turning Operations: Turning Chucking Skills, (5) Grinding Skills I, (6) Drill Press Skills I, (7) CNC Turning: Programming Setup & Operations, (8) CNC Milling: Programming Setup & Operations, (9) CNC Turning: Operations, (10) CNC Milling: Operations	NIMS: Certification
		091009	4	NIMS CNC Milling: Pgm Setup & Operations certification with Measurement, Materials & Safety exam		
		091010	4	NIMS CNC Turning: Operations certification with Measurement, Materials & Safety exam		
		091011	4	NIMS CNC Milling: Operations certification with Measurement, Materials & Safety exam		
		091099	S	College Credit		
	Drafting and Design Technology	031011	13	ADDA Apprentice Drafter Exam	An ADDA Apprentice Drafting Credential is the first step in an industry credentialing system that is based on an individual's knowledge and skills needed to understand essential manual and CAD drafting skills. The exam is basic drafting knowledge and not software specific.	Autodesk Foundation
		031001	6	Autodesk AutoCAD Certification	Students are required to pass Autodesk's AutoCAD or Revit certification assessments	
		031002	6	Autodesk Revit Certification		
		031099		College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Manufacturing Engineering Technology (MSSC)	091012	1	Quality Practices & Measurement with Safety exam (MSSC)	Students must pass the Safety exam and one of the following: (1) Quality Practices & Measurement (2) Manufacturing Processes & Production, (3) Maintenance Awareness	NIMS: Certification
		091013	1	Manufacturing Processes & Production with Safety exam (MSSC)		
		091014	1	Maintenance Awareness with Safety exam (MSSC)		

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Transportation Technologies (TT)	Automotive Technology Maintenance and Light Repair- Plus (NATEF)	101001	5	Suspension and Steering student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, OR (8) Heating and Air Conditioning. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<u>ASE Certification Tests</u>
		101002	5	Brakes student certification		
		101003	5	Electrical/ Electronic Systems student certification		
		101004	5	Engine Performance student certification		
		101005	5	Engine Repair student certification		
		101006	5	Automatic Transmission/Transaxle student certification		
		101007	5	Manual Drive Train and Axles student certification		
		101008	5	Heating and Air Conditioning student certification		
		101009	5	Maintenance and Light Repair student certification		
	101099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.		
	Autobody/ Collision Repair Technician	101010	5	Painting and Refinishing student certification	Pass one of the following ASE Student Certification exams: (1) Painting and Refinishing OR (2) Structural Analysis and Damage Repair. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA.	<u>ASE Certification Tests</u>
		101011	5	Structural Analysis and Damage Repair student certification		
101012		S	I-CAR Platinum Certificate		<u>I-CAR's Training Portfolio</u>	
101099		S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.		

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Transportation Technologies (TT)	Medium/Heavy Truck Technician-Diesel (NATEF)	101013	5	Diesel Engines student certification	Pass one of the following ASE Student Certification exams: (1) Diesel Engines, (2) Electrical/Electronic Systems, (3) Brakes, (4) Suspension and Steering. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA.	<u>ASE Certification Tests</u>
		101003	5	Electrical/Electronic Systems student certification		
		101002	5	Brakes student certification		
		101001	5	Suspension and Steering student certification		
		101099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
	Marine Maintenance and Repair Technologies	101018	1	NOCTI - ABYC certification in Marine Service Technology Fundamentals	The American Boat and Yacht Council (ABYC) certification in Marine Service Technology Fundamentals is a NOCTI developed certification exam in partnership with ABYC based on ABYC curriculum that covers over 240 hrs of content.	<u>NOCTI: American Boat & Yacht Council (ABYC) Certificate Programs</u>
	Transportation Logistics and Management	101099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	
Automotive Maintenance and Repair Technologies	101001	5	Suspension and Steering student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, (10) Painting and Refinishing, (11) Structural Analysis and Damage Repair, or (12) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	<u>ASE Certification Tests</u>	
101002	5	Brakes student certification				
101003	5	Electrical/ Electronic Systems student certification				
101004	5	Engine Performance student certification				
101005	5	Engine Repair student certification				

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

Career Cluster	CTE Program of Study	TSA Codes	*ADA	Technical Skill Assessment	Specific Criteria	Websites for Additional Information
Transportation Technologies (TT)		101006	5	Automatic Transmission/Transaxle student certification	Pass one of the following ASE Student Certification exams: (1) Suspension and Steering, (2) Brakes, (3) Electrical/ Electronic Systems, (4) Engine Performance, (5) Engine Repair, (6) Automatic Transmission/ Transaxle, (7) Manual Drive Train and Axles, (8) Heating and Air Conditioning, (9) Maintenance and Light Repair, (10) Painting and Refinishing, (11) Structural Analysis and Damage Repair, or (12) Diesel Engines. Developed by ASE in partnership with AYES, NATEF, and SkillsUSA	ASE Certification Tests
		101007	5	Manual Drive Train and Axles student certification		
		101008	5	Heating and Air Conditioning student certification		
		101009	5	Maintenance and Light Repair student certification		
		101010	5	Painting and Refinishing student certification		
		101011	5	Structural Analysis and Damage Repair student certification		
		101013	5	Diesel Engines student certification		
		101012	S	I-CAR Platinum Certificate		I-CAR's Training Portfolio
		101099	S	College Credit	Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.	

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
 Technical Skill Assessment Chart by Career Clusters and Programs of Study
 Testing Accommodations Chart for Technical Skill Assessments**

	Testing Agency	Accommodations	Steps to Take to Receive Accommodations	Testing Agency Contact
1.	NOCTI and NOCTI dispensed exams:	It is important to use Individualized Education Plans (IEPs) as guidelines when determining necessary accommodations for NOCTI assessments. NOCTI offers the following accommodations: Text-to-speech, readers, visual assistance, assessment booklets, time extensions and multiple sessions. For more information on these accommodations, visit this NOCTI Accommodations .	The coordinator guide is available to all NOCTI customers and is posted at their Client Services Center, a password protected site for managing their NOCTI testing programs	NOCTI Customer Care and Outreach nocti@nocti.org 1-800-334-6283 ext 291
2.	Graphic Arts Education and Research Foundation (PrintED); ; dispensed by Skills USA Work Force Ready System	Students with IEPs may receive reasonable accommodations for their special needs provided that those accommodations do not compromise assessment integrity. A reader is permitted as long as the reader is not an instructor in the assessment area being administered. The school may also use a computer reader client program of their choice. Tests are not timed. Student may take as long as the school permits to complete the assessment. It typically takes an average of an hour to complete (50 questions per test). Tests are all on-line so large print or test booklets are not offered at this time. Schools may test in any size group. A headset is recommended for group testing. The student may take breaks; however, the test must be completed in one setting. The student should click the "Suspend Assessment" button during breaks. The "Suspend Assessment": button will allow the student to continue testing when returning from a break.	There is no process to apply for accommodations since the school manages that part. The school needs to place the order in sufficient time for them to configure their computers for sound if that is needed. Agency requires a 48 business hour turn-around from the time the order is placed before the test is ready to access. An e-mail will be sent to the purchaser once the access is available.	SkillsUSA Support Desk 1-866-444-7779 support@skillconnect.org Once the order is placed the purchaser will receive an e-mail with instructions to access the on-line test as well as support phone numbers and other methods of help. For additional information on IEP accommodations contact the support desk or go to: SkillsUSA: Career Essentials: Assessment

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

	Testing Agency	Accommodations	Steps to Take to Receive Accommodations	Testing Agency Contact
3.	Pearson VUE dispensed exams	<p>Pearson VUE provides reasonable and appropriate test accommodations to individuals with documented disabilities who demonstrate a need for test accommodations. Pearson VUE test accommodations may include things such as a separate testing room, extra testing time, a reader or recorder for individuals with mobility or vision impairments and cannot read or write on their own.</p> <p>Test accommodations are individualized and considered on a case-by-case basis.</p>	<p>To request special accommodations for exams offered through Pearson VUE, go to the Pearson VUE Test Accommodations link and click on "Select Your Test Program," then find your exam (e.g. Linux, CISCO, Oracle, CompTIA, Geriatric Nurse Aide, Dental Assisting National Board, Pharmacy Technician Certification Board (PTCB), etc) in the list of exams to see the necessary forms that must be completed and sent to Pearson VUE. Candidate must make their requests for accommodations at the time of registration.</p>	<p>For questions related to special accommodations, send an email to Pearson VUE: accommodationspearsonvue@pearson.com</p> <p>To inquire about the status of requested accommodations, call 1-800-466-0450.</p>
4.	National Institute for Metalworking Skills (NIMS)	<p>Paper versions of online theory tests may be requested for students with IEPs. Additional accommodations can be made when IEPs or language challenges are present such as readers and translators.</p>	<p>There is no application for paper exams. To request a paper theory test, a representative of the school where testing will occur must email a written request to support@nims-skills.org with the student's name, school's name, theory test name, payment method and proctor contact information.</p>	<p>For questions related to special accommodations, send an email to NIMS: support@nims-skills.org Find further detail here. Paper tests are only mailed to registered proctors</p>
5.	National Institute for Automotive Service Excellence (ASE)	<p>ASE provides testing accommodations, under the provisions of the Americans with Disabilities Act (ADA), to individuals who need accommodations to take the ASE certification tests.</p> <p>ASE will make a reasonable effort to accommodate your request. After your request is received and evaluated, you will be notified of the testing accommodations that will be provided. Please do not register or schedule an appointment until after your request has been evaluated and approved by ASE.</p>	<p>To request accommodations, download the ADA Request Form here or call ASE Customer Service at 1-800-390-6789 to receive the form by e-mail or fax. The form must be completed by a qualified, appropriate professional (e.g., physician for physical disability, or psychologist for learning disability). The completed form must state the nature of the student's disability, how it affects their ability to take a computer-based, timed, multiple choice test, as well as the type of accommodations needed. For more information about the supporting documentation that is required, read ASE's detailed ADA policy here. Return the completed form and all supporting documentation to the address listed on the form.</p>	<p>If you have questions, call ASE Customer Service at 1-800-390-6789 before submitting your ADA Request Form. Request form located here</p>

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

	Testing Agency	Accommodations	Steps to Take to Receive Accommodations	Testing Agency Contact
6.	Certiport dispensed exams	<p>Certiport is committed to ensuring that those persons with the desire to certify their proficiency in the use of computers should have the opportunity to do so. Certiport is committed to providing access for all individuals with disabilities.</p> <p>Certiport and its Authorized Testing Centers require advance notification of requests for accommodations as well as a reasonable amount of time to review and implement such requests. that are designed to certify not only knowledge, but also efficiency in the use of computers.</p>	To request special accommodations for Certiport exams, visit Certiport Accommodations Certiport and its CATCs are not obligated to accommodate examinees with language limitations unrelated to a documented disability (e.g., English as a second language, literacy) nor to provide unlimited time for the completion of exams.	For questions, send an email to: accommodationscertiport@pe arson.com
7.	Educational Testing Service (ETS)	ETS is committed to serving test takers with disabilities or health-related needs by providing services and accommodations that are reasonable and appropriate given the purpose of the test. Testing accommodations are available for test takers with disabilities or health-related needs who meet ETS requirements.	<p>To request special accommodations for Praxis exams offered through ETS, go to the Praxis Special Accomodations link, for the ParaPro exam go to the link and click on ParaPro Special Accommodations Link to see the necessary forms and documentation that must be completed and sent to ETS.</p> <p>All test takers requesting any accommodations must submit their requests and have their accommodations approved by ETS Disability Services before their test can be scheduled. Documentation review takes approximately six weeks once your request and complete paperwork have been received.</p>	<p>For questions related to special accommodations, send an email to ETS Disability Services stassd@ets.org 1-609-771-7780</p> <p>1-866-387-8602 (Toll free for test takers in the United States, U.S. Territories* and Canada)</p> <p>To inquire about the status of requested accommodations, call 1-800-466-0450.</p>
8.	Maryland Board of Cosmetology/ Maryland Board of Barbers; dispensed through PSI	<p>PSI Services provides examination services for the State Board of Barbers and the State Board of Cosmetology. All PSI examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990, and every reasonable accommodation will be made in meeting a candidate's needs.</p> <p>Maryland Board of Cosmetologists/ Maryland Board of Barbers 500 N. Calvert Street, 3rd Fl Baltimore, Maryland 21202 410-230-6320 barbers.cos@maryland.gov</p>	Accommodations are provided in accordance with the Americans with Disabilities Act (ADA). Applicants with disabilities or those who would otherwise have difficulties taking the examination must contact the Maryland Board of Cosmetology for approval for special arrangements and request a copy of the ADA Accommodations. Applicants with disabilities or those who would otherwise have difficulty taking the examination should review the candidate information bulletin for instructions or call the ADA Services Team for further information.	<p>Maryland Board of Cosmetology 478-207- 2240</p> <p>ADA Services Team 1-800-733-9267 ext 6750</p>

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

	Testing Agency	Accommodations	Steps to Take to Receive Accommodations	Testing Agency Contact
9.	National Restaurant Association Educational Foundation (NRAEF) (ProStart)	<p>The Association provides reasonable accommodations to individuals with disabilities following procedures that are consistent with the <i>Americans with Disabilities Act, Uniform Guidelines on Employee Selection Procedures and the Standards for Educational and Psychological Testing</i>. This includes alternate test formats (such as oral instead of written) and test aids (such as readers or translators). Please follow your school's guidelines when making such accommodations.</p> <p><u>Foreign Language Translations:</u> An examinee with limited proficiency in English may use a qualified interpreter to assist the educator in administering his or her exam. The interpreter must be fluent in both English and the examinee's native language. The interpreter may have no personal relationship to the examinee. The interpreter also may not interpret subjective opinions or provide clues to the examinee.</p> <p>Examinees who want to take the exam in English are permitted to use a bilingual English native language dictionary (e.g., English-Spanish) during the exam. English-language dictionaries are not permitted.</p>	<p>No official requests for accommodations are required by NRAEF. See underlined instructions in the previous column to determine appropriate accommodations that should be provided to students with an IEP taking the National ProStart Assessments.</p>	<p>For questions regarding accommodations, contact the Service Center at: servicecenter@restaurant.org (800) 765-2122 ext. 6703</p>

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

	Testing Agency	Accommodations	Steps to Take to Receive Accommodations	Testing Agency Contact
10.	College Board	The College Board is committed to making sure that students with disabilities can take tests with the accommodations they need. All reasonable requests are considered.	<p>Approval by the College Board’s Services for Students with Disabilities (SSD) is required before students can take exams with accommodations. Schools submit the request online through the SSD Online Disability Accommodation Management System (SSD Online). Documentation is always required and must sometimes be submitted for College Board review.</p> <p>Families can also submit requests without the involvement of their school by requesting a paper Student Eligibility Form from their school or SSD. However, when families work with their schools to apply online, they usually save time and get a faster response. Visit CollegeBoard Accommodations for more information on this process.</p>	<p>College Board Service for Students with Disability ssd@info.collegeboard.org</p> <p>Phone: 212-713-8333</p> <p>Fax: 866-360-0114</p> <p>College Board SSD Program</p> <p>P.O. Box 7504 London, KY 40742-7504</p>
11.	Maryland Nursery, Landscape and Greenhouse Association (MNLGA)	The Maryland Nursery, Landscape and Greenhouse Association administers the Certified Professional Horticulturalist (CPH) assessment. Testing accommodations are allowed for student applicants in accordance with the Americans with Disabilities Act (ADA) of 1990. Maryland Nursery, Landscape, and Greenhouse Association	The MNLGA may not be able to directly provide a full array of possible accommodations. The school/teacher should notify the MNLGA at the time of exam registration that a student requires an accommodation and the nature of the accommodation. Through this communication, it will be determined if the school/school system needs to make arrangements for the accommodation to be provided.	For questions and to register a student for the CPH exam, contact: Michelle Mount MNLGA 410-823-8686
12.	American Welding Society (AWS)	Entry Level Practical Knowledge Qualification – Written Test: The practical knowledge written test is a written examination designed to show that the Entry Welder understands the subject matter presented in the program. If the trainee has special needs for learning, the test site coordinator/instructor shall administer the written test in the manner most suitable for the trainee.	AWS does not require any paperwork or request of documentation to offer accommodations.	For questions regarding special accommodations, contact: Ivan Santa-Cruz, Education Developer Phone:305-443-9353ext. 228 Email: isantacruz@aws.org

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

	Testing Agency	Accommodations	Steps to Take to Receive Accommodations	Testing Agency Contact
13.	American Design Drafter Association (ADDA)	ADDA allows extra time, accommodations for English as a second language, and other ADA Accommodations as referenced on the Examination Application.	Special accommodations can be requested on the Examination Application, found at the following link: ADDA Professional Certification . Once at this link, choose the application for the credential sought by the student. The type of accommodations needed should also be indicated on the Examination Application.	Pennie King Programs Manager ADDA International 105 East Main Street Newbern, TN 38059 Telephone 731-627-0802 Fax 731-627-9321 email: pking@adda.org website: American Design Drafting Association
14.	American Hotel & Lodging Educational Institute	The Certification Commission heartily supports the intent of the Americans with Disabilities Act (ADA) PL 101-334 §309(b)(3).	Commission will make a reasonable effort to provide candidates who have documented disabilities with the necessary aids and services that do not fundamentally alter the measurement of the skills or knowledge the CGSP Program.	Please direct specific questions regarding special accommodations to the Professional Certification Department at +1-407-999-8100 or 1-888-575-8726. AHLEI Professional Certification
15.	National Healthcareer Association (NHA)	Accommodations may be available to individuals with documented disabilities pursuant to the American with Disabilities Act (ADA). NHA provides reasonable testing accommodations to candidates whose documented disabilities or other qualifying medical conditions hinder their ability to take the examination under standard conditions.	To be considered for special accommodations, please complete the NHA Request for Accommodations Form in its entirety. Please be aware that submission of a request for an accommodation does not guarantee testing accommodations. Candidates should allow for a minimum of 30 days for processing, with the understanding that some cases may take longer. Candidates should include all of the required documentation with their initial request. Candidates MUST register online prior to requesting accommodations by going to www.nhanow.com and completing the registration process. Candidates must complete the registration process on their own behalf.	National Healthcareer Association compliance@atitesting.com 913-661-6525
16.	National Center for Construction Education and Research (NCCER)	Since NCCER Level 1 Certifications consist of End of Module exams given in the classrooms, accommodations referenced in the IEP should be utilized.	NCCER does not require any paperwork or request of documentation to offer accommodations.	Contact your local CTE Director/Administrator for further details.

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

	Testing Agency	Accommodations	Steps to Take to Receive Accommodations	Testing Agency Contact
17.	Environmental Systems Research Institute (Esri)	If a candidate is unable to take an exam using standard testing equipment or within the standard exam time, a request may be made for special accommodations. Each student will be assessed on an individual basis.	Even though the ArcGis Desktop Entry examination is dispensed through Pearson Vue, requests for test accommodations are handled directly by Esri. Please submit an accommodation request via e-mail to Esri at least twenty-one (21) days before registering for an exam. For more information on general test accommodations please visit Pearson VUE Test Accommodations .	Esri Testing Program certification@esri.com
18.	Council for Professional Recognition	It is the Council's commitment to provide a standardized and fair assessment for all eligible Child Development Associate (CDA) Candidates. Prior to submitting the CDA Application, a CDA Candidate with a documented disability should submit the Special Accommodations Request Form to the Council.	Even though the CDA examination is dispensed through Pearson Vue, requests for test accommodations are handled directly by the Council for Professional Recognition. Prior to submitting the CDA Application, a CDA Candidate with a documented disability should submit the Special Accommodations Request Form to the Council For more information on general test accommodations please visit Pearson VUE Test Accommodations .	Council for Professional Recognition CDA Exam Accommodations accommodations@cdacouncil.org
19.	Maryland Fire and Rescue Institute (MFRI)	Each student will be assessed on a case by case analysis.	An individual seeking an accommodation under the Americans with Disabilities Act must make a formal request in writing, listing the specific accommodation(s) being requested, and attaching supporting documentation, no more than three years old, to support the request. It is encouraged that the request is made at the beginning of each program; however, it can be made at any time. Forms are available upon request. Requests for information on reasonable accommodations under the Americans with Disabilities Act, or questions or complaints concerning the ADA or any of the other applicable federal or state laws regarding discrimination, shall be referred to the MFRI Equity Office or a registration center, which will institute the proper procedures. For additional information, contact the MFRI Equity Office at equity@mfri.org .	MFRI Equity Office equity@mfri.org

**Maryland Career and Technology Education Programs of Study CCR-CCA of 2013 -
Technical Skill Assessment Chart by Career Clusters and Programs of Study**

	Testing Agency	Accommodations	Steps to Take to Receive Accommodations	Testing Agency Contact
20.	Dental Assisting National Board (DANB)	DANB offers reasonable accommodations to candidates with documented disabilities as covered by the Americans with Disabilities Act (ADA). Reasonable accommodations will be provided to all eligible candidates in a manner that does not affect the integrity or security of the exam. DANB strives to provide an equal and fair testing opportunity to all candidates, those requesting accommodations and those who do not, in order to adequately measure their knowledge. DANB exams are administered only in the English language. Students must be able to complete the exam in English.	To request special accommodations, individuals should complete the DANB Exam Reasonable Accommodations Form and submit with supporting documentation by fax or mail to : 444 N. Michigan Ave. Suite 900 Chicago, IL 60611 Fax: 1-312-642-8507 DANB will respond to requests for accommodations in writing within 2 – 4 weeks of receiving the request.	DANB 1-800-367-3262.
21.	Pharmacy Technician Certification Board (PTCB)	The Pharmacy Technician Certification Board (PTCB) complies with the Americans with Disabilities Act of 1990 (ADA). To ensure equal opportunities for all qualified persons, PTCB will make reasonable testing accommodations for certification candidates when appropriate, and consistent with such legal requirements. PTCB will consider requests for special testing accommodations related to the Pharmacy Technician Certification Exam (PTCE) from certification candidates with a documented disability that substantially limits the candidate's sensory, manual, speaking, or other functional skills, including a disability that impairs significantly the candidate's ability to arrive at, read, or otherwise complete, the examination. These accommodations can include additional time to complete the exam or use of approved auxiliary aids.	Even though the PTCB examination is dispensed through Pearson Vue, requests for test accommodations are handled directly by the Pharmacy Technician Certification Board (PTCB). PTCB requires that each candidate requesting a special testing accommodation do so during the application process. Candidates must download the Special Accommodations Form and are required to submit the completed form by mail or fax within 30 days of submitting a certification application. A physician or other qualified professional who has made an individualized assessment related to the candidate's disability must provide the required information concerning the disability and the requested accommodation.	Pharmacy Technician Certification Board 800-363-8012
22.	School-Based Assessment	Schools and colleges are required to provide all reasonable and allowable accommodations for the administration of assessments to persons with disabilities or special needs.	All requested accommodations must be specified in the secondary student's IEP and reported to the Office of Student Disability Support Services for postsecondary students.	Contact your local CTE Director/Administrator for further details.

English/Language Arts Graduation and Career and College Readiness Requirements for Each Graduating Class from 2019 to 2020

Please refer questions to:

Ms. Ava B. Spencer

Coordinator of English Language Arts
Maryland State Department of Education
Division of Curriculum, Instructional Improvement, and Professional Learning
Telephone: 410.767.0830
Email: ava.spencer@maryland.gov

Maryland English Language Arts (ELA) Graduation and College and Career Readiness Requirements

Graduating Class of 2019 (Students entering 9 th Grade during the 2015/2016 School Year)					
School Year	Grade	ELA Graduation Requirements for Public High Schools in Maryland		Additional ELA Requirements put into law by the College and Career Readiness and College Completion Act of 2013 (CCR)	
		Credit Requirements	Assessment Requirements	CCR Assessment Options	12 th Grade Transition Course
2015/2016 2016/2017 2017/2018 2018/2019	9 th 10 th 11 th 12 th	Students must earn 4 credits in English Language Arts.	<p>Students must achieve a score of 725 on the Maryland Comprehensive Assessment Program (MCAP) English 10.</p> <p>If the MCAP English 10 graduation requirement is not met after two attempts, the student may submit an English Bridge Project.</p>	<p>Students must be assessed by the end of the 11th grade to determine readiness for credit-bearing CCR, using one of the following:</p> <ul style="list-style-type: none"> • MCAP English 10 <ul style="list-style-type: none"> ○ Score of Level 4 or higher • MCAP English 11 <ul style="list-style-type: none"> ○ A score of Level 4 or higher • SAT <ul style="list-style-type: none"> ○ Score of 480 or higher on Evidence-based Reading and Writing (EBRW) Section • ACT <ul style="list-style-type: none"> ○ Score of 21 or higher (Average of English and Reading scores) • AP Lit & Comp or AP Lang & Comp <ul style="list-style-type: none"> ○ Score of 3 or higher • IB Language A: Literature SL or HL, or IB Language A: Language & Literature SL or HL <ul style="list-style-type: none"> ○ Score of 4 or higher • Accuplacer <ul style="list-style-type: none"> ○ Score of 79+ Reading, 6+ Writing, and 90+ Sentence Skills (students must meet minimum scores on all three) <p><i>Next Generation Accuplacer -Scores TBD</i></p> • Dual enrollment <ul style="list-style-type: none"> ○ Admission to and enrollment in a Maryland IHE's appropriate ELA college credit-bearing course <p><i>Note: LSSs may use alternate CCR determination options, if an agreement exists between the LSS and a local community college that allows students to take college-level credit-bearing coursework using different metrics.</i></p>	<p>Students not designated CCR by the end of the 11th grade must participate in one of the following options:</p> <ul style="list-style-type: none"> • Next ELA course in the sequence with support by adding additional time and additional content addressed, or • ELA transition course, or • Transition course articulated with a college, or • Other ELA instructional opportunity, such as: <ul style="list-style-type: none"> ○ ELA module ○ Online ELA course ○ Hybrid ELA course <p>Students who were not designated CCR by the end of the 11th grade must be reassessed by the end of the senior year. Reassessment options include all of the CCR Assessment Options listed in the column to the left. Additional senior year CCR reassessment options include:</p> <ul style="list-style-type: none"> • Summative Assessment aligned to the ELA Transition Course articulated by a college, or • Career and Technology Education Program Technical Skill Assessment that qualifies students to earn college credit or a license or an industry certification. <p><i>Note: LSSs may use alternate CCR determination option, if an agreement exists between the LSS and a local community college that allows students to take college-level credit-bearing coursework using different metrics.</i></p>

Maryland English Language Arts (ELA) Graduation and College and Career Readiness Requirements

Graduating Class of 2020 (Students entering 9 th Grade during the 2016/2017 School Year)					
School Year	Grade	ELA Graduation Requirements for Public High Schools in Maryland		Additional ELA Requirements put into law by the College and Career Readiness and College Completion Act of 2013 (CCR)	
		Credit Requirements	Assessment Requirements	CCR Assessment Options	12 th Grade Transition Course
2016/2017 2017/2018 2018/2019 2019/2020	9 th 10 th 11 th 12 th	Students must earn 4 credits in English Language Arts.	<p>Students must achieve a score of 725 on the Maryland Comprehensive Assessment Program (MCAP) English 10 assessment.</p> <p>If the MCAP English 10 graduation requirement is not met after two attempts, the student may submit an English Bridge Project.</p>	<p>Students must be assessed by the end of the 11th grade to determine readiness for credit-bearing CCR, using one of the following:</p> <ul style="list-style-type: none"> • MCAP English 10 <ul style="list-style-type: none"> ○ Score of Level 4 or higher • MCAP English 11 <ul style="list-style-type: none"> ○ Score of Level 4 or higher • SAT <ul style="list-style-type: none"> ○ Score of 480 or higher on Evidence-based Reading and Writing (EBRW) Section • ACT <ul style="list-style-type: none"> ○ Score of 21 or higher (Average of English and Reading scores) • AP Lit & Comp or AP Lang & Comp <ul style="list-style-type: none"> ○ Score of 3 or higher • IB Language A: Literature SL or HL, or IB Language A: Language & Literature SL or HL <ul style="list-style-type: none"> ○ Score of 4 or higher • Accuplacer <ul style="list-style-type: none"> ○ Score of 79+ Reading, 6+ Writing, and 90+ Sentence Skills (students must meet minimum scores on all three) <i>Next Generation Accuplacer -Scores TBD</i> • Dual enrollment <ul style="list-style-type: none"> ○ Admission to and enrollment in a Maryland IHE's appropriate ELA college credit-bearing course <p><i>Note: LSSs may use alternate CCR determination options, if an agreement exists between the LSS and a local community college that allows students to take college-level credit-bearing coursework using different metrics.</i></p>	<p>Students not designated CCR by the end of the 11th grade must participate in one of the following options:</p> <ul style="list-style-type: none"> • Next ELA course in the sequence with support by adding additional time and additional content addressed, or • ELA transition course, or • Transition course articulated with a college, or • Other ELA instructional opportunity, such as: <ul style="list-style-type: none"> ○ ELA module ○ Online ELA course ○ Hybrid ELA course <p>Students who were not designated CCR by the end of the 11th grade must be reassessed by the end of the senior year. Reassessment options include all of the CCR Assessment Options listed in the column to the left. Additional senior year CCR reassessment options include:</p> <ul style="list-style-type: none"> • Summative Assessment aligned to the ELA Transition Course articulated by a college, or • Career and Technology Education Program Technical Skill Assessment that qualifies students to earn college credit or a license or an industry certification. <p><i>Note: LSSs may use alternate CCR determination options, if an agreement exists between the LSS and a local community college that allows students to take college-level credit-bearing coursework using different metrics.</i></p>

Mathematics Graduation and Career and College Readiness Requirements for Each Graduating Class from 2019 to 2020

Please refer questions to:

Ms. Debra L. Ward

Coordinator of Mathematics

Maryland State Department of Education

Division of Curriculum, Instructional Improvement, and Professional Learning

Telephone: 410.767.0355

Email: debra.ward@maryland.gov

Maryland Mathematics Graduation and College and Career Readiness Requirements

Graduating Class of 2019 (Students entering 9 th Grade during the 2015/2016 School Year)					
School Year	Grade	Mathematics Graduation Requirements for Public High Schools in Maryland		Additional Mathematics Requirements put into law as a result of College and Career Readiness and College Completion Act of 2013 (CCR)	
		Credit Requirements	Assessment Requirements	CCR Assessment Options	12 th Grade Transition Course
2015/2016 2016/2017 2017/2018 2018/2019	9 th 10 th 11 th 12 th	<p>Students must earn 3 credits in mathematics which must include a credit in:</p> <ul style="list-style-type: none"> • Algebra • Geometry <p>Maryland’s goal for all students is completion of Algebra II but completion of Algebra II is not a Maryland mathematics credit requirement.</p> <p>Enrollment in a mathematics course during 12th grade is required.</p> <p><i>Note the University System of Maryland (USM) Mathematics Admission Requirements related to the completion of Algebra II in the footnote below.¹</i></p>	<p>Students must achieve a score of 725 on MCAP Algebra I assessment</p> <p><i>Note: Students who took the Algebra I assessment during the 2014/2015 or 2015/2016 school year or took the Algebra Data/Analysis Assessment during the 2013/2014 school year only needed to participate in the assessment to satisfy their Maryland Mathematics Assessment graduation requirement.</i></p> <p>If the Algebra I graduation assessment requirement is not met after two attempts, the student may meet the requirement through successful completion of an Algebra I Bridge Project.</p>	<p>Students must be assessed by the end of the 11th grade to determine readiness for credit-bearing college level coursework, using one of the following:</p> <ul style="list-style-type: none"> • MCAP Algebra II <ul style="list-style-type: none"> ○ Score of 4 or higher • For 11th graders enrolled in Geometry, a score of Level 4 or higher on the Geometry assessment may satisfy the CCR determination.² • SAT <ul style="list-style-type: none"> ○ Score of 530 or higher on the Mathematics portion • ACT <ul style="list-style-type: none"> ○ Score of 21 or higher on Mathematics portion • AP Calculus AB, AP Calculus BC, AP Statistics <ul style="list-style-type: none"> ○ Score of 3 or higher • IB Mathematics <ul style="list-style-type: none"> ○ Score of 4, or higher • Accuplacer <ul style="list-style-type: none"> ○ College Level Mathematics test Score of 45 or higher ○ Next Generation Accuplacer –Assessments and Scores TBD • Dual enrollment <ul style="list-style-type: none"> ○ Admission to and enrollment in a Maryland IHE’s appropriate mathematics college credit-bearing course <p><i>Note: LSSs may use alternate CCR determination options, if an agreement exists between the LSS and a local community college that allows students to take college-level credit-bearing mathematics coursework using different metrics.</i></p>	<p>Students not designated college and career ready by the end of the 11th grade must participate in one of the following options:</p> <ul style="list-style-type: none"> • Next mathematics course in the sequence with support, or • Transition course articulated with a college, or • Other mathematics instructional opportunity: <ul style="list-style-type: none"> ○ Modules ○ Online Mathematics course ○ Hybrid Mathematics Course <p>Students who were not designated as CCR by the end of the 11th grade must be reassessed by the end of the senior year. Additional CCR reassessment options include:</p> <ul style="list-style-type: none"> • Summative Assessment aligned to the Mathematics Transition Course articulated with a college, or • Career and Technology Education Program Technical Skill Assessment that qualifies students to earn college credit or a license or an industry certification. <p><i>Note: LSSs may use alternate CCR determination options, if an agreement exists between the LSS and a local community college that allows students to take college-level credit-bearing mathematics coursework using different metrics.</i></p>

¹ The Mathematics Admissions requirements for schools in the University System of Maryland exceed the Maryland Mathematics Graduation Requirements. (See details below.)

The University System of Maryland (USM) Board of Regents in December 2009 approved a new academic policy that requires incoming freshman undergraduates to have completed four years of high school math. The requirement applies to student applicants who entered ninth grade in Fall 2011 (Seniors during 2014-2015). The coursework must include Algebra I, Geometry, and Algebra II. Students who complete Algebra II before their senior year must also complete the fourth-year math requirement. They can do so by taking a course during their senior year that is intensive in algebra and expands on algebra foundations developed during Algebra II.

The University System of Maryland is comprised of: Bowie State University; Coppin State University; Frostburg State University; Salisbury University; Towson University; University of Maryland, Baltimore; University of Maryland, Baltimore County; University Center for Environmental Science; University of Maryland, College Park; University of Maryland, Eastern Shore; University of Maryland, University College; and University of Baltimore.

² Unless otherwise determined, districts may use the Geometry assessment as a means to satisfy the CCR assessment requirement for 11th grade students taking Geometry. Please note that a score of 4 or higher on the Geometry assessment does not indicate readiness for college-level credit-bearing mathematics coursework.

Maryland Mathematics Graduation and College and Career Readiness Requirements

Graduating Class of 2020 (Students entering 9 th Grade during the 2016/2017 School Year)					
School Year	Grade	Mathematics Graduation Requirements for Public High Schools in Maryland		Additional Mathematics Requirements put into law by the College and Career Readiness and College Completion Act of 2013 (CCR)	
		Credit Requirements	Assessment Requirements	CCR Assessment Options	12 th Grade Transition Course
2016/2017 2017/2018 2018/2019 2019/2020	9 th 10 th 11 th 12 th	<p>Students must earn 3 credits in mathematics which must include a credit in:</p> <ul style="list-style-type: none"> • Algebra • Geometry <p>Maryland’s goal for all students is completion of Algebra II but completion of Algebra II is not a Maryland mathematics credit requirement.</p> <p>Enrollment in a mathematics course during 12th grade is required.</p> <p><i>Note the University System of Maryland (USM) Mathematics Admission Requirements related to the completion of Algebra II in the footnote below.¹</i></p>	<p>Students must achieve 725 on MCAP Algebra I assessment</p> <p><i>Note: Students who took the MCAP for Algebra I assessment during the 2014/2015 or 2015/2016 school year only needed to participate in the assessment to satisfy their Maryland Mathematics Assessment graduation requirement.</i></p> <p>If the Algebra I graduation assessment requirement is not met after two attempts, the student may meet the requirement through successful completion of an Algebra I Bridge Project.</p>	<p>Students must be assessed by the end of the 11th grade to determine readiness for credit-bearing college level coursework, using one of the following:</p> <ul style="list-style-type: none"> • MCAP Algebra II <ul style="list-style-type: none"> ○ Score of 4 or higher • For 11th graders enrolled in Geometry, a score of Level 4 or higher on the Geometry assessment may satisfy the CCR determination. ² • SAT <ul style="list-style-type: none"> ○ Score of 530 or higher on the Mathematics portion • ACT <ul style="list-style-type: none"> ○ Score of 21 or higher on Mathematics portion • AP Calculus AB, AP Calculus BC, AP Statistics <ul style="list-style-type: none"> ○ Score of 3, or higher • IB Mathematics <ul style="list-style-type: none"> ○ Score of 4, or higher • Accuplacer <ul style="list-style-type: none"> ○ College Level Mathematics test Score of 45 or higher ○ Next Generation Accuplacer –Assessments and Scores TBD • Dual enrollment <ul style="list-style-type: none"> ○ Admission to and enrollment in a Maryland IHE’s appropriate mathematics college credit-bearing course <p><i>Note: LSSs may use alternate CCR determination options, if an agreement exists between the LSS and a local community college that allows students to take college-level credit-bearing mathematics coursework using different metrics.</i></p>	<p>Students not designated CCR by the end of the 11th grade must participate in one of the following options:</p> <ul style="list-style-type: none"> • Next mathematics course in the sequence with support, or • Transition course articulated with a college, or • Other mathematics instructional opportunity: <ul style="list-style-type: none"> ○ Modules ○ Online Mathematics course ○ Hybrid Mathematics Course <p>Students who were not designated as CCR by the end of the 11th grade must be reassessed by the end of the senior year. Additional CCR reassessment options include:</p> <ul style="list-style-type: none"> • Summative Assessment aligned to the Mathematics Transition Course articulated with a college, or • Career and Technology Education Program Technical Skill Assessment that qualifies students to earn college credit or a license or an industry certification. <p><i>Note: LSSs may use alternate CCR determination options, if an agreement exists between the LSS and a local community college that allows students to take college-level credit-bearing mathematics coursework using different metrics.</i></p>

¹ **The Mathematics Admissions requirements for schools in the University System of Maryland exceed the Maryland Mathematics Graduation Requirements.** (See details below.) The University System of Maryland (USM) Board of Regents in December 2009 approved a new academic policy that requires incoming freshman undergraduates to have completed four years of high school math. The requirement applies to student applicants who entered ninth grade in Fall 2011 (Seniors during 2014-2015). The coursework must include Algebra I, Geometry, and Algebra II. Students who complete Algebra II before their senior year must also complete the fourth-year math requirement. They can do so by taking a course during their senior year that is intensive in algebra and expands on algebra foundations developed during Algebra II.

The University System of Maryland is comprised of: Bowie State University; Coppin State University; Frostburg State University; Salisbury University; Towson University; University of Maryland, Baltimore; University of Maryland, Baltimore County; University Center for Environmental Science; University of Maryland, College Park; University of Maryland, Eastern Shore; University of Maryland, University College; and University of Baltimore.

² Unless otherwise determined, districts may use the Geometry assessment as a means to satisfy the CCR assessment requirement for 11th grade students taking Geometry. Please note that a score of 4 or higher on the Geometry assessment does not indicate readiness for college-level credit-bearing mathematics coursework.

Frequently Asked Questions English Language Arts (ELA) Graduation and College and Career Readiness Requirements

Please refer questions to:

Ms. Ava B. Spencer

Coordinator of English Language Arts

Maryland State Department of Education

Division of Curriculum, Instructional Improvement, and Professional Learning

Telephone: 410.767.0830

Email: ava.spencer@maryland.gov

MSDE ELA Graduation Requirements

Questions Related to:

Maryland Education Article, Annotated Code of Maryland

§ 7-205.1. High school curriculum and graduation requirements

(b) Assessment of students; transition and other courses Section (2) (ii) states:

“The implementation of transition courses or other instructional opportunities required under subparagraph (i) of this paragraph :

- 1. Shall include an assessment or reassessment of the student after completion of the course; and*
- 2. May not preclude or replace enrollment in a course otherwise required for graduation from high school.”*

(1). Question:

Does a senior, deemed not college and career ready in ELA via a CCR assessment administered at the end of the 11th grade, need to enroll in an ELA transition course during the senior year if enrollment in the transition course would preclude the student from taking a course required for graduation?

Answer:

No, if there is no room for additional courses in a student’s school schedule, then the student is not required to enroll in an English transition course in the 12th grade.

(2). Question:

Does a senior, deemed not college and career ready in ELA via a CCR assessment administered at the end of the 11th grade, need to be provided other instructional opportunities beyond the school day in order to satisfy the requirements of the law, if the student cannot fit a transition course into his/her schedule?

Answer:

No, transition courses or other instructional opportunities should take place during the regular school day. The statute states that a transition course may not "replace" a course needed to graduate. Thus, if a student needs credits in English Language Arts or in math to graduate, transition courses in those content areas cannot be used to fulfill the regular English Language Arts or math credits needed to graduate. The transition course or instructional opportunity must be in addition to the English or math course needed for graduation, by adding time spent and content addressed.

The statute states that a transition course may not "preclude" enrollment in a course needed to graduate. Thus, if a student needs specific courses to graduate, and cannot fit those courses and a transition course into the schedule, the student need not take the transition course. A transition course cannot get in the way of a student completing his regular graduation credit requirements.

Question Related to:

COMAR Regulation 13A.03.02.09 Diplomas and Certificates section B. (3)(c)

B. Maryland High School Diploma. Except as provided in Regulation 12 of this chapter, and in section C of this regulation, to be awarded a Maryland high school diploma a student shall:

(3) Satisfy one of the following:

(c) Achieve a score as established by the department on department-approved substitute assessment for algebra, biology, English, and Government, aligned with the Maryland Comprehensive Assessment Programs such as Advanced Placement examinations, SAT I, SAT II, ACT, and International Baccalaureate examinations;

(3). Question:

Can a student satisfy the English assessment graduation requirement using a means other than by earning a passing score on the Maryland Comprehensive Assessment Program for English or by successfully completing an English Bridge Plan?

Answer:

Yes, according to The Code of Maryland Regulations (COMAR) 13A.03.02.09.B.(3)(c), students can satisfy their English assessment graduation requirement using other exams approved by the MSDE including Advanced Placement (AP) English Language or English Literature score of 3 or higher, International Baccalaureate (IB) English A1 score of 5, or higher.

Additional ELA Requirements put into law by the College and Career Readiness and College Completion Act of 2013 (CCR)

General CCR Questions:

(4). Question:

Community colleges require students to earn minimum scores on Accuplacer in Reading, Writing and Sentence skills or on the Evidence-based Reading and Writing (EBRW) Section of the SAT before being permitted to take a college-level credit bearing English course. If a community college allows a high school student to take a college-level credit bearing English course, is the student considered to be college and career ready?

Answer:

*Yes, if a community college allows a student to take a college-level credit bearing English course; however, taking and successfully completing a **non-credit developmental** English course at a community college does not necessarily mean a student has met the minimum assessment requirements to meet the CCR designation.*

(5). Question:

Dual enrollment is listed as an option for Grade 11 Assessment, but is it dual enrollment for students completing a course in Grade 11 or 12? If the course is in lieu of another assessment, could an 11th grader take the credit-bearing course in the summer before the Junior or Senior year and have the class count?

Answer:

- College-level credit-bearing coursework can count toward the CCR designation. Students in grade 11 dually enrolled in a college-level credit-bearing English course do not need to take a CCR assessment.
- Students who are permitted by a local community college to take a college-level credit-bearing English course during the summer between their 11th and 12th grade year are considered to be CCR and would not be required to take a 12th grade English transition course or reassessment.
- Students in 12th grade and dually enrolled in a college-level credit-bearing English course are CCR and no transition course or reassessment is needed.

(6). Question:

Who will oversee the testing and the collection of data? If the plan includes the next course in the sequence with support (as indicated on the MSDE English Language Arts [ELA] and Mathematics Credit, Enrollment and Assessment Requirements charts), how will this information be gathered and analyzed?

Answer:

The MSDE oversees the testing administration of the state administered assessments that may be used for the CCR designation including Algebra II, and English 11. All other CCR assessment decisions are a district decision.

The MSDE will collect information from the local districts on CCR assessments and transition opportunities as part of data collections in the Office of Accountability. The information collected will be used to fulfill federal and state compliance reporting. Information will be available at the local district and state level to inform programmatic and policy decisions.

(7). Question:

Under what circumstances, if any, can a student be exempt from taking a Transition Course?

Answer:

A student who has a schedule that is already full with courses required for graduation, and has no room for additional courses in his/her schedule, is exempt from taking the transition course.

(8). Question:

CCR 12th grade reassessment options include the SAT and Advanced Placement English exams. Results from Advanced Placement Exams typically become available after schools have dismissed for the summer. Depending on when a 12th grade student takes the SAT, the results may also not be available until after schools dismiss for the summer. How will a student learn of their CCR designation if the CCR assessment results are not available until the summer?

Answer:

This is a district decision.

(9). Question:

If a student uses the SAT CCR assessment option instead of the English 11 CCR assessment option, and English 11 assessment results are tied to teacher performance, how will that affect the teacher?

Answer:

This is a district decision.

(10). Question:

How can comparisons be made between systems if a few systems opt for the SAT, some for the Accuplacer, and some for MCAP CCR Assessment option?

Answer:

Any comparisons between districts should be done by the districts themselves solely for the purposes of informing best practices. It is hoped that districts will use the analysis of data from the CCR assessments and transition courses to improve practices designed to help students achieve a CCR designation by the time they graduate from high school.

(11). Question:

Does allowing some districts to cover the cost for all of their students to take the SAT for CCR designation widen the equity gap?

Answer:

All districts have the option to cover the cost for all of their students to take the SAT. It is each district's decision whether to use the SAT as a CCR assessment for all students.

(12). Question:

If a system uses the SAT and a student is absent on the day of testing, what is used in its place?

Answer:

This is a district decision. Any of the other CCR assessment options could potentially be used.

(13). Question:

In an IB program, what is the HL and SL designation?

Answer:

HL is Honors Level and SL is Standard Level. While one is called "standard," the test is a rigorous assessment of language skills and part of the IB program.

(14). Question:

The Accuplacer score as indicated on the MSDE English Language Arts (ELA) Credit, Enrollment and Assessment Requirements chart lists the following scores: Score of 79+ Reading, 6+ Writing, and 90+ Sentence Skills (Next Generation Accuplacer -Scores TBD). Can those scores be combined and averaged?

Answer:

No, the listed scores are minimum scores for each assessment. These scores cannot be combined or averaged.

(15). Question:

English 10 and 11, ACT, AP, and IB all require essays; the SAT is optional. Is the SAT essay required to determine CCR status? Writing is a pivotal skill which perhaps should be scored. There will be a great discrepancy among systems when some use assessments where the essays are required.

Answer:

The assessments and cut scores listed are accepted “as is.” It is up to the district to determine whether the test they choose to administer has an essay.

(16). Question:

For the ACT, do students need to have a 21 or higher on the English and Writing subtests; the English and Reading subtests; or the English, Reading, and Writing subtests? Is the writing piece optional?

Answer:

The student must achieve an average score of 21 or higher on English and Reading.

(17). Question:

Since there are additional instructional opportunities outside the regular English class, are there additional situations in which a student would be exempt from taking an ELA Transition Course? Unlike math where conceivably the student could not fit additional coursework in their schedule, in English, if the additional instructional opportunities are outside the regular school day, how would there be justification for a waiver?

Answer:

Transition courses or other instructional opportunities should take place during the regular school day and may not preclude or replace enrollment in a course otherwise required for graduation from high school.

Students not designated college and career ready by the end of the 11th grade must participate in one of the following:

- *ELA transition course, or*
- *Transition course articulated with a college, or*
- *Other ELA instructional opportunity, such as:*
 - *ELA module*
 - *Online ELA course*
 - *Hybrid ELA course*

(18). Question:

For a school that offers the IB Program, knowing that the students have to score a 4 or higher on the IB exam, which exam determines CCR since there are multiple exams given through IB?

Answer:

Language A: Literature SL or HL

Language A: Language & Literature SL or HL

Language B is a second language proficiency assessment; therefore, it is not listed for CCR determination.

Students must achieve a score of 4 or higher on one of the English-related IB exams.

(19). Question:

Can we have the students enroll in regular English during the first semester and enroll in an English course offered by the community college for the second semester? Will this cover the transition course because it would be outside the regular English classroom?

Answer:

Yes, if the English course is on a semester schedule, and the students are receiving the entire English 12 course in the first semester.

Frequently Asked Questions Mathematics Graduation and College and Career Readiness Requirements

Please refer questions to:

Ms. Debra L. Ward

Coordinator of Mathematics

Maryland State Department of Education

Division of Curriculum, Instructional Improvement, and Professional Learning

Telephone: 410.767.0355

Email: debra.ward@maryland.gov

Mathematics Graduation and College and Career Readiness Frequently Asked Questions

Questions Related to:

**Maryland Education Article, Annotated Code of Maryland
§ 7-205.1. High school curriculum and graduation requirements**

(b) Assessment of students; transition and other courses

Section (2) (ii) states:

“The implementation of transition courses or other instructional opportunities required under subparagraph (i) of this paragraph :

- 3. Shall include an assessment or reassessment of the student after completion of the course; and*
- 4. May not preclude or replace enrollment in a course otherwise required for graduation from high school.”*

(1). Question:

Does a senior, deemed not college and career ready in mathematics via a CCR assessment administered at the end of the 11th grade, need to enroll in a mathematics transition course during the senior year if enrollment in the transition course would preclude the student from taking a course required for graduation?

Answer:

No, if there is no room for additional courses in a student’s school schedule, then the student is not required to enroll in a mathematics transition course in the 12th grade.

(2). Question:

Does a senior, deemed not college and career ready in mathematics via a CCR assessment administered at the end of the 11th grade, need to be provided other instructional opportunities beyond the school day in order to satisfy the requirements of the law, if the student cannot fit a transition course into his/her schedule?

Answer:

No, transition courses or other instructional opportunities should take place during the regular school day. The statute states that a transition course may not “replace” a course needed to graduate. Thus, if a student needs credits in English Language Arts or in mathematics to graduate, transition courses in those content areas cannot be used to fulfill the regular English Language Arts or mathematics credits needed to graduate. The transition course or instructional opportunity must be in addition to the English or mathematics course needed for graduation, by adding time spent and content addressed.

The statute states that a transition course may not “preclude” enrollment in a course needed to graduate. Thus, if a student needs specific courses to graduate, and s/he cannot fit those courses and a transition course into his schedule, s/he need not take the transition course. A transition course cannot get in the way of a student completing regular graduation credit requirements.

Mathematics Graduation and College and Career Readiness Frequently Asked Questions

(3). Question:

If a community college allows a high school student to take a college-level credit-bearing mathematics course, is the student considered to be college and career ready?

Answer:

Yes, if a community college allows a student to take a college-level credit-bearing mathematics course; however, taking and successfully completing a non-credit developmental mathematics course at a community college does not necessarily mean a student is college and career ready.

(4). Question:

Dual enrollment is listed as an option for Grade 11 Assessment, but is it dual enrollment for students completing a course in Grade 11 or 12?

If the course is in lieu of another assessment, could an 11th grader take the credit-bearing course in the summer before Junior or Senior year and have the class count?

Answer:

- College-level credit-bearing coursework can count toward the CCR designation. Students in grade 11 dually enrolled in a college-level credit-bearing mathematics course do not need to take a CCR assessment.
- Students who are permitted by a local community college to take a college-level credit-bearing mathematics course during the summer between their 11th and 12th grade year are considered to be CCR and would not be required to take a 12th grade mathematics transition course or reassessment.
- Students in 12th grade dual enrolled in a college-level credit-bearing mathematics course are CCR and no transition course or reassessment is needed.

(5). Question:

Who will oversee the testing and the collection of data? If the plan includes the next course in the sequence with support (as indicated on the MSDE English Language Arts (ELA) and Mathematics Credit, Enrollment and Assessment Requirements charts), how will this information be gathered and analyzed?

Answer:

The MSDE oversees the testing administration of the state administered assessments that may be used for the CCR designation including Algebra II, and English 11. All other CCR assessment decisions are a district decision.

The MSDE will collect information from the local districts on CCR assessments and transition opportunities as part of data collections in the Office of Accountability. The information collected will be used to fulfill federal and state compliance reporting. Information will be available at the local district and state level to inform programmatic and policy decisions.

(6). Question:

CCR 12th grade reassessment options include the SAT and Advanced Placement mathematics exams. Results from Advanced Placement Exams typically become available after schools have dismissed for the summer. Depending on when a 12th grade student takes the SAT, the results may also not be available until after schools dismiss for the summer. How will a student learn of the CCR designation if the CCR assessment results are not available until the summer?

Answer:

This is a district decision.

Mathematics Graduation and College and Career Readiness Frequently Asked Questions

(7). Question:

If a student uses the SAT CCR assessment option instead of the MCAP Algebra II CCR assessment option, and MCAP Algebra II CCR assessment results are tied to teacher performance, how will that affect the teacher?

Answer:

This is a district decision

(8). Question:

How can comparisons be made between systems if a few systems opt for the SAT, some for the Accuplacer, and some for MCAP CCR Assessment Option?

Answer:

Any comparisons between districts should be done by the districts themselves solely for the purposes of informing best practices. It is hoped that districts will use the analysis of data from the CCR assessments and transition courses to improve practices designed to help students achieve a CCR designation by the time they graduate from high school.

(9). Question:

Does allowing some districts to cover the cost for all of their students to take the SAT for CCR designation widen the equity gap?

Answer:

Districts have the option to cover the cost for all of their students to take the SAT. It is each district's decision whether to use the SAT as a CCR assessment for all students.

(10). Question:

If a system uses the SAT and a student is absent on the day of testing, what is used in its place?

Answer:

This is a district decision. Any of the other CCR assessment options could potentially be used.

(11). Question:

There is a great deal of confusion over whether or not Geometry can be used as a college and career ready test for grade 11. If it can, will it count for CCR if the student scores a 4 or 5?

Answer:

Section 7-205.1b.1 of the Annotated Code of Maryland ([Maryland Code and Court Rules](#)) stipulates that beginning with the 2015-2016 school year, all students shall be assessed using acceptable college placement cut scores no later than the 11th grade to determine whether the student is ready for college-level credit-bearing course work. To be ready for credit-bearing college-level coursework in Mathematics, students must possess the foundational skills acquired through successful completion of Algebra II. It is unlikely that a student who has not yet completed Algebra II would be ready for credit-bearing college-level mathematics coursework. LSSs may use the Geometry assessment as a CCR assessment for 11th grade students enrolled in Geometry in order to comply with the requirement that all students be assessed by the end of the 11th grade to determine readiness for college-level credit-bearing coursework in mathematics.

(12). Question:

Would earning a score of 4 or higher on the Geometry Maryland Comprehensive Assessment Program or the Algebra II Maryland Comprehensive Assessment Program result in a student being designated as CCR?

Answer:

A student who earns a score of 4 or higher on the Algebra II Maryland Comprehensive Assessment Program (MCAP) is considered CCR. A junior who earns a score of 4 or higher on the Geometry MCAP is considered CCR. The Geometry MCAP is an acceptable no-cost CCR assessment option for students taking Geometry during their junior year only.

Mathematics Graduation and College and Career Readiness Frequently Asked Questions

(13). Question:

If a student fails to earn a Geometry credit by the end of the 11th grade and needs to re-take Geometry as a senior, can the Geometry assessment fulfill the CCR reassessment requirement?

Answer:

Yes, if a student fails to pass Geometry by the end of junior year and is re-taking Geometry as a senior to earn the Geometry credit required for graduation, the Geometry assessment could be used to fulfill the CCR reassessment requirement.

(14). Question:

COMAR 13A.03.02.09.C.(2) indicates that any student who has taken an-aligned Algebra I course prior to the 2016-2017 school year may meet the graduation requirements for Algebra I by passing Algebra I and taking the assessment aligned with the Algebra I course at least one time. Does this regulation mean that students only have to take one of the CCR assessments but will not be required to earn the designated cut score since the students only have to take the Algebra I assessment?

Answer:

There is no connection between the graduation requirements associated with Algebra I and the CCR assessment requirements.

Section 7-205.b.2 of the Annotated Code of Maryland stipulates that transition courses must be in place next year.

*“(i) Subject to subparagraph (ii) of this paragraph, the Department, in collaboration with local school systems and public community colleges, shall develop and **implement, by the 2016-2017 school year,** transition courses or other instructional opportunities to be delivered in the 12th grade to students who have not achieved college and career readiness by the end of the 11th grade.”* COMAR

13A.03.02.09C.(2) is in reference to earning a diploma; it is unrelated to meeting the CCR requirement. Algebra I does not satisfy the requirement for CCR designation; however, Algebra I does satisfy a graduation requirement.

(15). Question:

Can a single mathematics course taken during the senior year satisfy both an LSS requirement that a student earn a 4th mathematics credit and mathematics transition course requirement if the same student was deemed not CCR at the end of the 11th grade?

Answer:

In this situation, one senior year mathematics course can satisfy both local and state requirements. Enrollment in a 4th year is required, however only 3 credits of mathematics are required.

(16). Question:

IB Exams are typically given during the 12th grade. Why are IB exams listed under CCR assessment options?

Answer:

IB exams were listed to cover unusual circumstances. If a student took an IB exam as an 11th grader due to some unusual circumstance, the score earned could determine CCR.

Attachment 1
2018 – 2019 Revisions to the Memorandum of
Understanding Between Maryland Association
of Community Colleges and Public School
Superintendents Association of Maryland

Memorandum of Understanding
Between Maryland Association of Community Colleges and
Public School Superintendents Association of Maryland

This Memorandum of Understanding ("MOU") is entered into this 1st day of August 2017, by and between the Maryland Association of Community Colleges and the Public School Superintendents Association of Maryland.

Background

WHEREAS, under the College and Career Readiness and College Completion Act of 2013 (herein referred to as "the CCR&CCA"), Annotated Code of Maryland, Education Article § 7-205, beginning in the 2015-2016 school year all students shall be assessed using acceptable college placement cut scores no later than 11th grade to determine whether the student is ready for college-level credit-bearing coursework in English Language Arts, Literacy and Mathematics.

WHEREAS, the Maryland State Department of Education (MSDE), in collaboration with local school systems and public community colleges, shall develop and implement by the 2016-2017 school year transition courses or other instructional opportunities to be delivered in the 12th grade to students who have not achieved college and career readiness by the end of the 11th grade.

WHEREAS, the implementation of transition courses or other instructional opportunities shall include an assessment or reassessment of the student after completion of the course and may not preclude or replace enrollment in a course otherwise required for graduation from high school.

NOW THEREFORE, by the signatures below, the individuals representing their respective organizations acknowledge in this Memorandum of Understanding (herein referred to as "MOU") that after extensive review and collaboration, the parties agree to the following criteria relating to executing their responsibilities under the provisions of the CCR&CCA as identified above.

Agreement

I. College and Career Readiness Criteria and Assessment. A high school junior or senior student to be deemed as college and career ready must meet one of the following criteria:

11th Grade								
	PARCC	SAT	ACT	AP	IB	ACCUPLACER	Dual Enroll.	GPA
English Language Arts (ELA)	English 10 score of Level 4 or 5 satisfies the CCR determination English 11 score of Level 4 or 5	SAT Evidence Based Reading/Writing Score of 480	Score of 21 or greater Average of English Test & Reading Test scores	English Language & Composition Or English Literature & <u>Composition</u> Exam Score of 3, 4 or 5	Lang. A: Lit SL or HL Or Lang. A: Lang. & Lit. SL or HL Grade 4 or above on one or more	Reading 79+ Writing 6+ & Sentence Skills 90+	Admission to and enrollment in a Maryland IHE's appropriate ELA college credit-bearing course. Existing local agreements between LSSs and community colleges or CCR are accepted.	<ul style="list-style-type: none"> The verified cumulative unweighted high school GPA of 3.0 or better be used to signify the college-readiness of the applicant; the GPA will have an expiration date of no less than 5 years, regarding its utility as a metric for college-readiness. As such, the applicant would not have to take the Accuplacer exam, or otherwise be restricted from registering for credit classes. This measure does not apply to grades earned in English as a Second Language (ESL) courses. The use of the recommended 3.0 or higher high school GPA as an alternative measure for college-readiness at all Maryland community colleges will be in place by Fall 2019. A review of the metric will occur within three years of the implementation of the new alternative measure.
Math*	Algebra II Score of Level 4 or 5 For 11* graders enrolled in Geometry, a score of Level 4 or 5 on PARCC Geometry satisfies the CCR determination	SAT Score of 530	Score of 21 or greater on Mathematics Test	Calculus AB Calculus BC Statistics Exam Score of 3, 4, or 5	Math Studies Math SL Math HL Further Math Grade 4 or above on one or more	College level Mathematics test scores of 45+	Admission to and enrollment in a Maryland IHE's appropriate math college credit bearing course. Existing local agreements between LSSs and community colleges or CCR are accepted.	

* The Geometry assessment may be used as a no-cost CCR assessment for 11th grade students enrolled in Geometry. Eleventh grade students who earn a score of 4 or higher on the Geometry assessment are not required to take a mathematics transition course or senior year reassessment.

This satisfies the CCR designation for school year **2018-2019. Further research is being done to determine if additional years will be approved.

There are several college majors or pathways that may require a score higher than the minimal college readiness scores identified in the above chart. These majors are in the Science and Math fields, for example, an Associate’s of Science and Engineering degree requires a strong Math background. The minimally accepted indicated scores for those majors are as follows:

Accuplacer	SAT (new)	ACT
55+ College Level Math	570	24

In the case where a student achieves a score in any of the above instruments that meets minimal college readiness levels but falls below the recognized readiness levels for specific majors as describe above, that student may be required to take credit-bearing, pre-requisite coursework.

Numerous LSSs have long standing local agreements with their community colleges that move students to credit-bearing coursework at their community colleges. These local agreements vary in scope based on past experiences ranging from acceptance of a certain level GPA with coursework review, to academic performance on a specific level of high school coursework.

This MOU recognizes the validity of these local agreements without specification of each individual agreement. Local agreements can be extended at the discretion of the community college and the LSS.

2. Ineligible. If a student is deemed not college and/or career ready (hereafter "CCR") at the end of 11th grade, the student is required to meet the criteria as established in the chart below in order to be eligible for dual enrollment:

Senior Coursework	
English Language Arts (ELA)	<p>Complete an ELA transition course or an additional ELA "instructional opportunity" (online, hybrid, module, etc.) in preparation for re-assessment</p> <p style="text-align: center;">OR</p> <p>Enroll in a transition course articulated with a community college. These articulated college courses include, but are not limited to, Developmental English, courses approved by the community college as sufficient preparation for college, or courses that are taught by community college faculty.</p>
MATH	<p>Complete a math transition course or an additional math "instructional opportunity" (online, hybrid, module, etc.) in preparation for re-assessment</p> <p style="text-align: center;">OR</p> <p>Enroll in a transition course articulated with a community college</p>

3. Reassessment. Reassessment criteria are identified below:

Re-Assessment	
English Language Arts (ELA)	Summative Course Assessment (externally validated by local community college) OR PARCC 10 OR PARCC 11 OR SAT/ACT OR Accuplacer OR AP Test OR IB Test
MATH	Summative Course Assessment (externally validated by local community college) OR PARCC Algebra II OR SAT/ACT OR Accuplacer OR AP Test OR IB Test

4. Exception. If a student is determined to be college-ready in mathematics prior to 11th grade, all CCR requirements have been met for mathematics. However, students entering 9th grade class of 2014-2015 school year shall enroll in a mathematics course in each year of high school that the student attends, up to a maximum of four years of attendance, unless in the 5th or 6th year a mathematics course is needed to meet a graduation requirement.

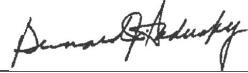
5. Career and Technology Programs. For students enrolled in Career and Technology Programs to be deemed as college and career ready they must meet the following criteria:

Senior Year Coursework - An appropriate transition course or other instructional opportunity consistent with the completion of a State Approved Career and Technology Education Program of Study.

Reassessment- Technical Skill Assessment recognized by MSDE leading to a license or an industry certification or early college credit.

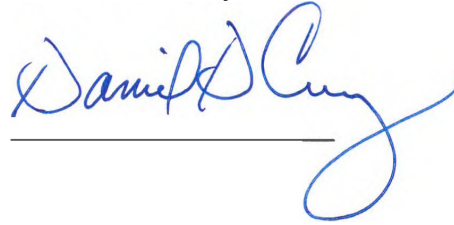
This MOU expires June 30, 2019. The parties agree to annually review this MOU to provide modifications as may be deemed relevant in accordance with changes in the law.

Maryland Association of
Community Colleges



Executive Director

Public School Superintendents
Association of Maryland



President