

Department of Career Readiness and Innovative Programs

Career Readiness for our Students

MONTGOMERY COUNTY PUBLIC SCHOOLS

Woodward High School Reopening and
Nontraditional Facilities Study Group Meeting

April 21st, 2017

By Benjamin T. OuYang, Ph. D.
Director



Department of Career Readiness and Innovative Programs include the following:

- **Career and Post Secondary Partnerships** (Genevieve Floyd)
- **Division of Consortia Choice and Application Program Services** (DC CAPS) (Jeannie Franklin)
- **Foundation Offices** (Steve Boden)
- **Interim Instructional Services**-(Home and Hospital Learning) (Anne Taylor)
- **Secondary Special Programs** (Bridge and Avid) Vic Carascio

Department of Career Readiness and Innovative Programs include the following:

- **Secondary Instruction and Achievement** (Angela Stevenson)
- **Student Online Learning and Online Pathways to Graduation** (Michelle Lipson)
- **Summer School and Extended Day Program** (Nicole Allain)
- **SEPA, CREA and Secondary METS – Interrupted Education** (Gabi Ayaroa-Emamjomeh)
- **Career Technology Education Programs of Study** (Steve Boden, Rhonda Dillard, Genevieve Floyd, and Maria Tarasuk)
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College or Career Readiness in MCPS

Success upon high school graduation will be defined as—

- Enrolling in credit-bearing college courses with no remediation.
- Earning a living wage.
- Entering the military.
- Completing a technical school with experiential learning.
- Receiving industry training and certification.
- Earning an associate's or bachelor's degree after graduation.
- Earning college credits or an associate's degree before graduation.

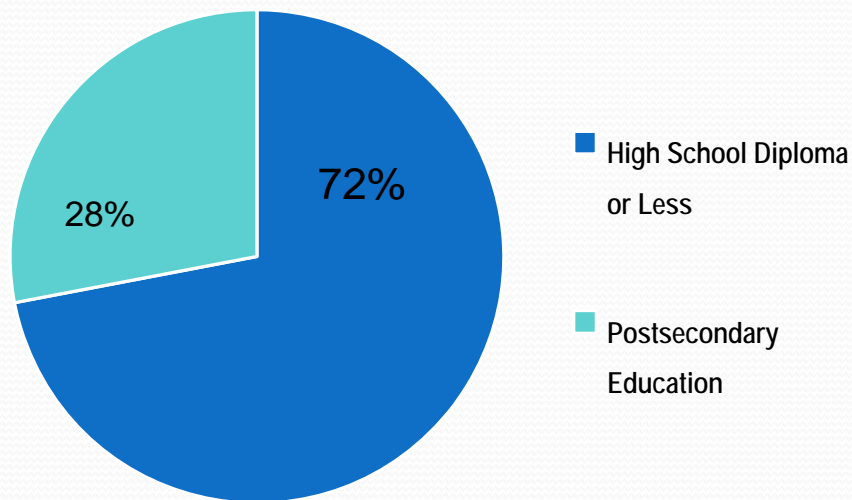
What is career readiness?

A student has obtained career readiness when he or she has attained the **academic knowledge, technical skills, and 21st century employability competencies** to be successful in non-remedial postsecondary education or training that leads to an entry-level position **with opportunities for advancement and a sustaining career.**

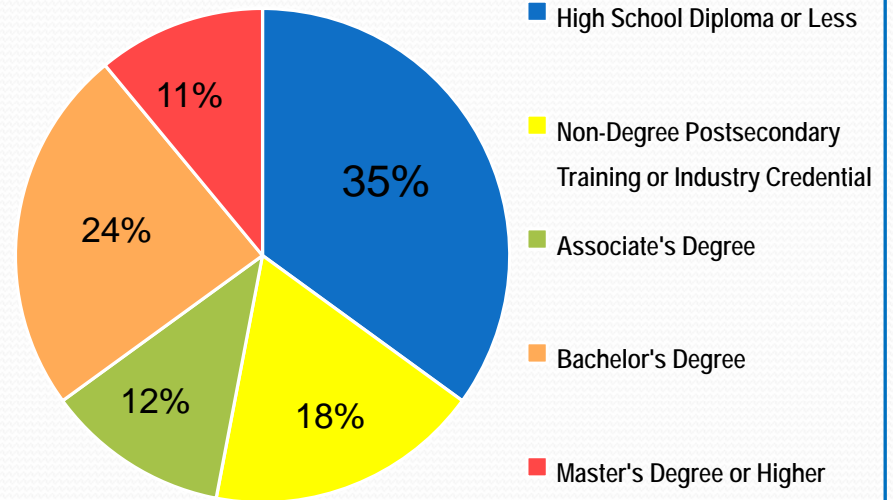
Adapted from the Educational Policy Improvement Center, 2012

Percentage of Employment Opportunities by Educational Attainment

Percentage of Employment Opportunities by Educational Attainment in 1973

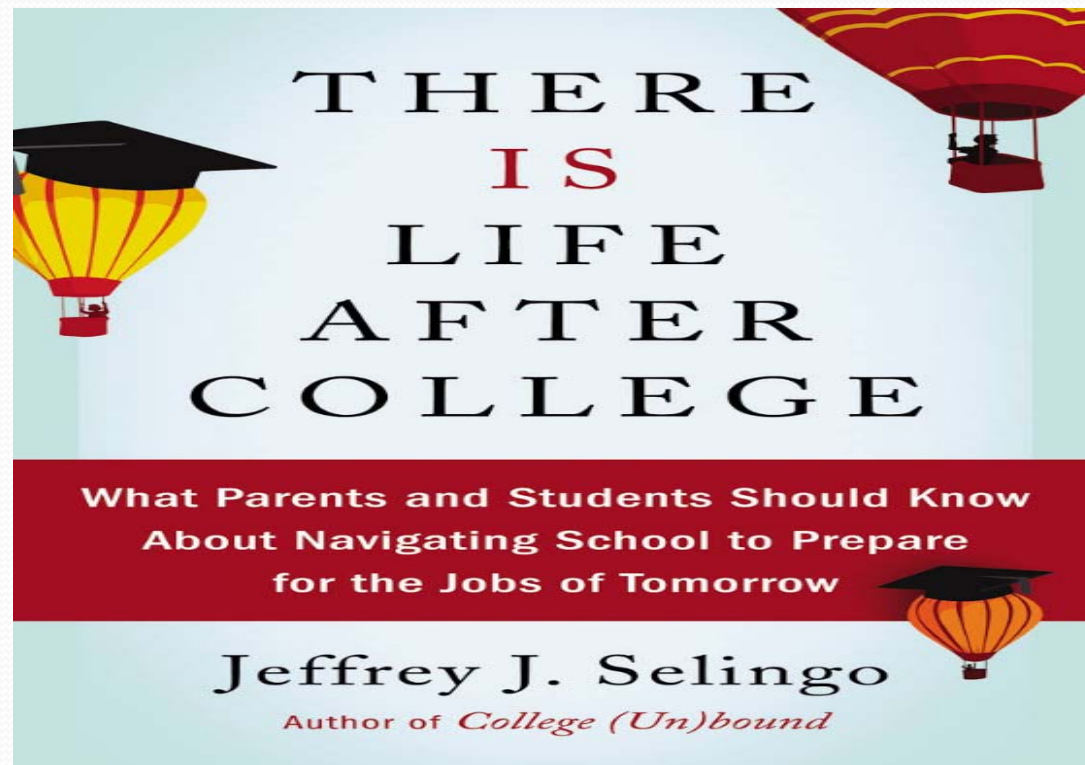


Percentage of Employment Opportunities by Educational Attainment Projected for 2020

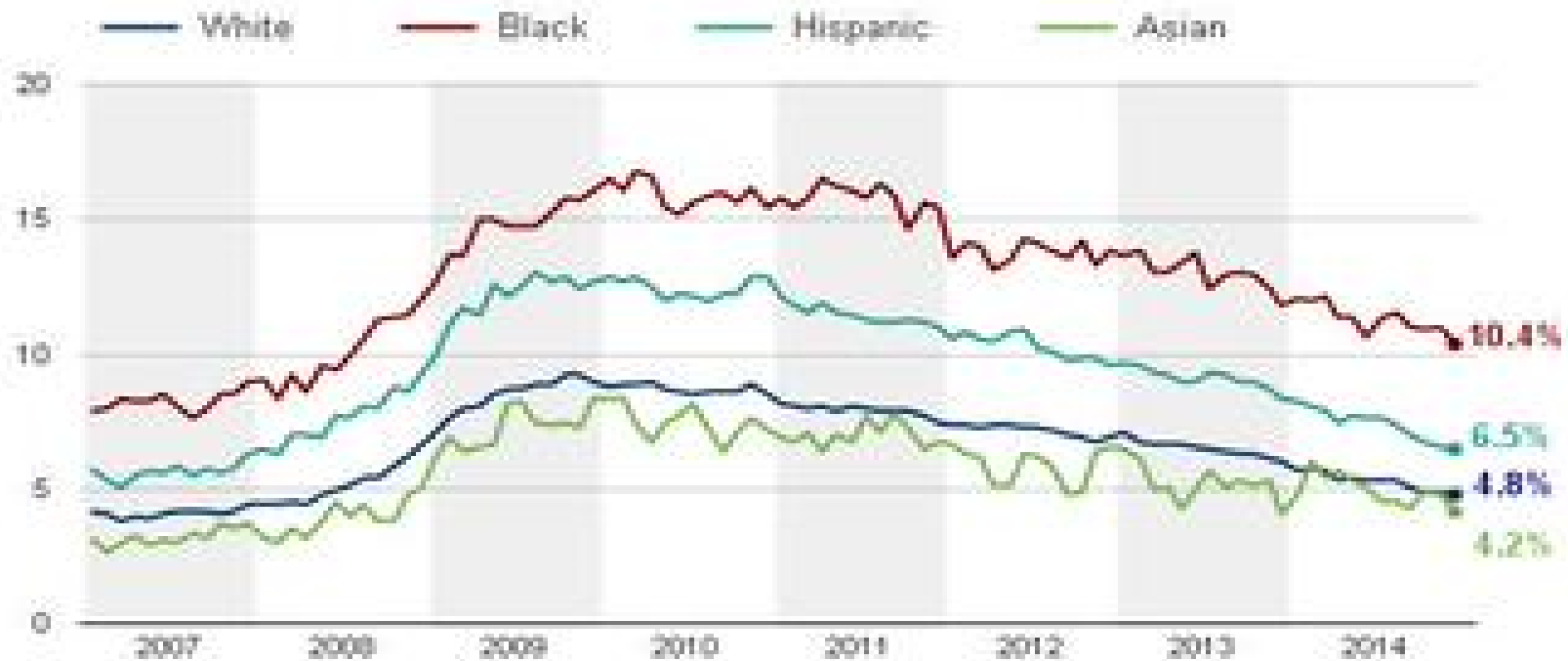


National Forum on Education Statistics, May 2015

54% of our graduates this past year are working while going to college....



U.S. unemployment by race and ethnicity

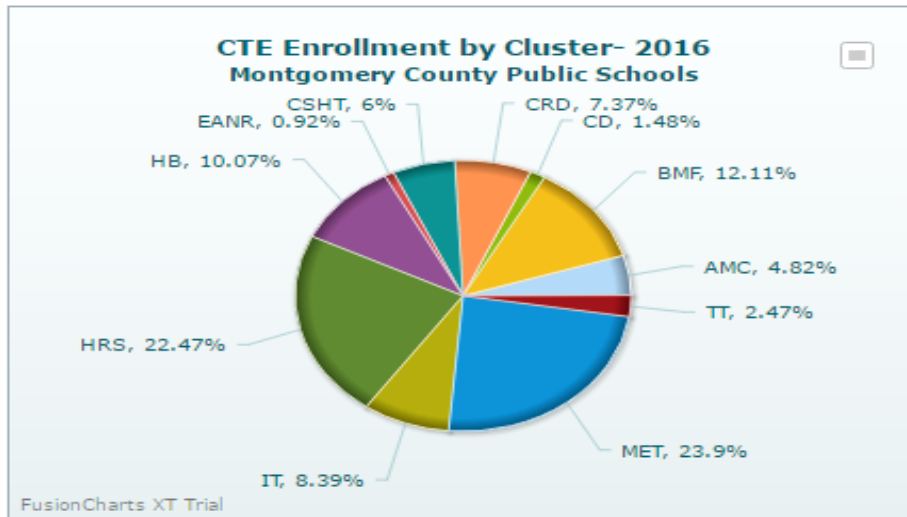


Source: Thomson Reuters Datastream — Stephen Culp @ReutersCulp 1/9/2015

Program Completer Data

Year	No. of Programs	Concentrator	Completer	# of Graduates	Percentage of Graduates with Completers
2014 –2015	34	960	782	9,940	7.9
2015–2016	34	904	1,019	10,284	9.9

Montgomery County Public Schools CTE Enrollment- 2016



Number of students enrolled in CTE courses



13,323

Portion of high school students participating in CTE



28.9%

Number of schools with CTE programs



27

Number of CTE programs of study



35

CTE Career Cluster	Enrollment
Arts, Media, and Communication - AMC	642
Business Management and Finance - BMF	1,614
Construction and Development - CD	197
Career Research and Development - CRD	982
Consumer Services, Hospitality and Tourism - CSHT	800



Office of Curriculum and Instructional Programs

Programs of Study

Arts, Media, and Communications

1 Media Broadcasting (Radio)

Media Broadcasting (Television)

2 Multimedia and Interactive Technologies (Game)

Multimedia and Interactive Technologies (Web)

3 Print Technologies and Digital Graphics

Business Management and Finance

4 Academy of Finance

5 Accounting

6 Business Administration

7 Marketing

Construction and Development

8 Carpentry

9 Construction Electricity

10 Heating, Ventilation, and Air Conditioning (HVAC)

11 Masonry

12 Plumbing

13 Principles of Architecture and CAD Technology Design

Consumer Services, Hospitality, and Tourism

14 Academy of Hospitality and Tourism, National

15 Cosmetology

16 Hospitality Management

17 Professional Restaurant Management Culinary Arts (ACF)



Office of Curriculum and Instructional Programs

Programs of Study

Environmental, Agriculture, and Natural Resources

18 Certified Professional Horticulturalist

Health and Biosciences

19 Academy of Health Professions and Biosciences

20 Project Lead the Way (PLTW): Biomedical Sciences

21 Biotechnology

Human Resource Services

22 Early Child Development

23 Justice, Law, and Society

Information Technology

24 Academy of Information Technology (NAF) - IT Networking

25 Academy of Information Technology (NAF) - IT Programming

26 Academy of Information Technology (NAF) - Web Design

27 Cisco Networking Academy

28 Computer Science/Code.org

29 Network Operations

Manufacturing, Engineering, and Technology

18 Project Lead the Way (PLTW): Advanced Engineering

Transportation Technologies

31 Automotive Collision Repair/Dealership Training

32 Automotive Technology/Dealership Training

33 Foundations of Automotive Technology

Additional Program:

34 College/Career Research and Development

CTE POS in the Downcounty Consortium Schools...

Montgomery Blair HS

- Accounting
- Marketing
- Early Childhood Development
- Justice, Law and Society
- **Computer Science**
- **College Career Research Development**

Albert Einstein HS

- Academy of Finance
- Accounting
- Business Administration
- Hospitality Management
- **Computer Science**

- **College Career Research Development**

John F. Kennedy HS

- Media Broadcasting
- Business Admin
- Marketing
- AOHP BioSciences
- **Computer Science**
- **College Career Research Development**

Northwood HS

- Business Administration
- Marketing
- Early Childhood Development
- Justice Law and Society

- **Computer Science**
- **College Career Research and Development**

Wheaton HS

- PLTW: Biomedical
- PLTW: Engineering
- AOIT: Programming
- AOIT: Web Design
- **Computer Science**
- **College Career Research Development**

CTE Programs of Study at BCC, WJ and Whitman...

Bethesda-Chevy Chase HS

- Multimedia and Interactive Technologies
- **Early Childhood Development**
- Cisco Network Academy
- **Computer Science**
- **College Career Research/Development**
- PLTW: Engineering

Walter Johnson HS

- **Early Childhood Development**
- **Compute Science**
- **College Career Research/Development**

Walt Whitman HS

- Business Administration
- **Early Childhood Development**
- **Computer Science**
- **College Career Research/Development**
- PLTW: Engineering

Progress to Date:

- Three-year Career Readiness Improvement Plan shared with Board of Education on November 10, 2015.
- MCPS has 34 CTE Programs of Study within 11 CTE Career clusters.
- Students may attend CTE program outside their home schools for part of the school day (cross-enrolled).
- Use of Naviance has been expanded to Grades 7 and 8

Progress to Date:

- Replacing the four-year plan with the High School Graduation College and Career Planner, to standardize student planning at all middle schools during the course registration process.
- The External Review is currently being conducted and findings will be presented to the BOE in August 2017.
 - New CTE programs of study being considered:
 - Apartment Maintenance
 - Certified Clinical Medical Assistants
 - Homeland Security (coming for sure in the Fall 2017)
 - Teacher Academy of Maryland
 - Police/ Firefighter Academy

College and Career Readiness....


Montgomery County Public Schools





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College and Career Readiness and College Completion Act of 2013 (CCRCCA)

Background

In 2013, the Maryland General Assembly passed the College and Career Readiness and College Completion Act (CCRCCA). The Act includes the requirement that all students be assessed for college and career readiness in English and mathematics by the end of Grade 11, using one of several college and career readiness assessments. As part of the CCRCCA, students who do not meet the college and career ready (CCR) standard in English or mathematics by the end of Grade 11 must enroll in a transition course or other approved instructional opportunity in Grade 12. After completing the transition course or instructional opportunity, students must be reassessed by the end of Grade 12.



Montgomery County Public Schools (MCPS) has a longstanding goal of ensuring that our graduates leave MCPS prepared for postsecondary study without the need for remediation. All MCPS high schools already provide instructional opportunities during the

College and Career Readiness

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What are the assessments that determine college and career readiness in MCPS?

One of the following assessments may determine college and career readiness in CRITICAL READING/ENGLISH/LANGUAGE ARTS	One of the following assessments may determine college and career readiness in MATHEMATICS
SAT: 500* ACT: 21 or higher ACCUPLACER: Reading 79 or above Sentence Skills 90 or above Advanced Placement (AP) Language and Composition, or AP Language and Literature: Score of 3 or higher International Baccalaureate (IB) Language and Literature SL or HL: Score of 4 or higher	SAT: 500* ACT: 21 or higher ACCUPLACER: College Level Math 45 or above Advanced Placement (AP) Calculus AB or BC, or AP Statistics: Score of 3 or higher International Baccalaureate (IB) Math Studies, Math SL or Math HL: Score of 4 or higher
OR	
Summative writing assessment externally validated by Montgomery College	Summative mathematics assessment externally validated by Montgomery College
OR	
Career and Technology Education (CTE) external assessment that leads to a professional license or industry certification Visit http://www.montgomeryschoolsmd.org/career-readiness/ for specific programs.	

* Changes pending based on the redesigned SAT.

What if a student does not meet the requirement by the end of Grade 11?

As part of the CCRCCA, students who do not meet the standard by the end of Grade 11 must enroll in a transition course or other instructional opportunity in Grade 12. After completing the transition opportunity, students must be reassessed by the end of Grade 12. Transition options will include the following:

1. Completing online instructional modules in preparation for reassessment.
2. Enrolling in a course within the student's schedule, such as College Test Prep; AP or IB English and/or mathematics courses; a Career and Technology Education (CTE) program that leads to an MSDE-approved industry certification; or a transitional course offered in partnership with Montgomery College.
3. Enrolling in the next English or mathematics course in sequence with enhancements that provide additional time and content in preparation for reassessment.



Assessments that determine College and Career Readiness (This is just for the Class of 2020...)

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OR	
Summative writing assessment externally validated by Montgomery College	Summative mathematics assessment externally validated by Montgomery College
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3. Enrolling in the next English or mathematics course in sequence with enhancements that provide additional time and content in preparation for reassessment.

Where can you find more information...

- Career Readiness website has been updated to better market programs.
- <http://www.montgomeryschoolsmd.org/career-readiness/index.aspx>
 - Over thirty thousand hits in less than one year...
- <http://www.montgomeryschoolsmd.org/info/CCRCCA/>
 - <http://www.montgomeryschoolsmd.org/info/CCRCCA/faq.aspx>
- <http://www.marylandpublicschools.org/programs/Documents/CCRS/CCRToolKit2016.pdf>

EXPLORE OPTIONS

Learn about the special programs offered at MCPS. A number of programs are often available at the local school that have been designated for your geographic area. Or you may choose to participate in a regional or countywide program, where application and admission processes vary by program.

[Explore Options](#)

EXPLORE HS PLANS

MCPS groups careers into 11 different *Career and Technology Education (CTE)* clusters and other career related opportunities to help direct you toward focused programs of study with high school plans. The plans will help you to choose courses that align with your future goals. Most include opportunities to earn college credit and industry certification.

[2017-2018 CTE Counselor Toolkit](#)

[2016-2017 CTE Counselor ToolKit](#)

[Explore High School Plans](#)

EXPLORE INTERESTS

Naviance Succeed is a web program that helps you navigate through the college application process. You can also use it to build a resume, summarize goals, and keep track of your college and scholarship applications. Go to the College/Career Center at your local high school for a registration code.

EXPLORE CAREERS

Identify a career that aligns with your interests on Career Coach, and you can start working toward your future goals now. Career Coach is an online search tool that will give you the opportunity to explore potential careers or job possibilities in Maryland and the Washington, D.C. metropolitan area.

Montgomery County Public Schools (MCPS) has a longstanding goal of ensuring that our graduates leave MCPS prepared for postsecondary study without the need for remediation. All MCPS high schools already provide instructional opportunities during the junior and senior years to help students transition to credit-bearing coursework in college and help them achieve college-ready scores on the SAT, ACT, or ACCUPLACER. Historically, more than 70 percent of MCPS students take the SAT and/or ACT by the end of Grade 11, with additional students taking the ACCUPLACER. Students then routinely receive instructional support during senior year before another test administration. This support might be a College Test Prep course, online modules such as Khan Academy or MyFoundations Lab, or other instructional supports that regularly embed preparation for college-readiness assessments as part of instruction. These existing practices, already in place in every MCPS high school, are the foundation for implementation of the CCRCCA. All schools are providing information to students and families to ensure they understand the best assessment to take by the end of the junior year, and if needed, how to enroll in transition courses or other instructional opportunities during senior year.

Read more about the MCPS Graduation Requirements

- ▶ [Class of 2020 Freshmen English](#) | español | 中文 | français | tiếng Việt | 한국어 | አማርኛ
- ▶ [Class of 2019 Sophomores English](#) | español | 中文 | français | tiếng Việt | 한국어 | አማርኛ
- ▶ [Class of 2018 Juniors English](#) | español | 中文 | français | tiếng Việt | 한국어 | አማርኛ
- ▶ [Class of 2017 Seniors English](#) | español | 中文 | français | tiếng Việt | 한국어 | አማርኛ

FREQUENTLY ASKED QUESTIONS



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Frequently Asked Questions

In MCPS, what assessments will students take to determine college and career readiness in Grade 11?

[Expand/Collapse Answer](#)

What if a student does not meet the requirement by the end of Grade 11?

[Expand/Collapse Answer](#)

What are the reassessment options to determine college and career readiness in Grade 12?

[Expand/Collapse Answer](#)

How will students know what test to take and if transition coursework is needed?

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



Questions/ Suggestions?

