

UMBC Upward Bound Math & Science

**Academic Year Program Orientation
September 21, 2024**

Agenda

- Introduction
- Program Objectives
- Eligibility Criteria
- Academic Year Program
- Expectations
- Evaluation of Progress and Achievement
- Technology Initiatives
- Conclusion

Our Purpose

“Education is the great engine of personal development. It is through education that the daughter of a peasant can become a doctor, that a son of a mineworker can become the head of the mine, that a child of farm workers can become the president of a nation.”

— Nelson Mandela

Mission Statement



**Prepare income eligible students, who
aspire to be first generation college
graduates, for academic programs that
lead to careers in the fields of
mathematics and science.**

UBMS Program Objectives

1. **65%** of participants will have a cumulative GPA > 2.5
(75%)
2. **30%** of seniors will achieve at proficient level or higher on State Assessments in reading/language arts and math.
(83%)
3. **90%** of participants will continue in HS the next year at the next grade level. (97%)
4. **80%** of graduates will complete a rigorous HS curriculum.
(92%)
5. **75%** of graduating seniors will enroll in a postsecondary program immediately after graduation. (100%)
6. **60%** of participants in (#5) will receive an associate's and/or bachelor's degree within six years of HS graduation.
(35%)

Where are They Now? Class of 2023



In State

- CCBC
- Loyola U.
- Towson U.
- UMD

Out of State

- George Mason U.
- Spelman C.
- Tuskegee U.

What Colleges will see

BALTIMORE COUNTY PUBLIC SCHOOLS TRANSCRIPT

Transcript Side 1
Maryland State
Department of Education

Legal Name:

Local ID # 990-87-0843

Birth Date: 10/23/1996

State Identifier: 2566-545-302

School Year: 2008/2009 Grade: 07
PERRY HALL MIDDLE
Days Present: 171.0 Days Absent: 9.0

| Subject | Level | Final Grade | Credits Earned |
|--------------|-------|-------------|----------------|
| SPANISH I MS | ST | P | 1.0 |

School Year: 2012/2013 Grade: 11
CARVER CTR ARTS TECH
Days Present: 170.0 Days Absent: 11.0

| Subject | Level | Final Grade | Credits Earned |
|-------------------------|-------|-------------|----------------|
| ENGLISH 11 | ST | C | 1.0 |
| US HISTORY HON | H | C | 1.0 |
| GEOMETRY | ST | D | 1.0 |
| EARTH/SPACE SCIENCE HON | H | C | 1.0 |
| COSMETOLOGY 5 MAG | ST | A | 1.0 |
| COSMETOLOGY 6 MAG | ST | A | 1.0 |
| COSMETOLOGY 7 MAG | ST | A | 1.0 |
| COSMETOLOGY 8 MAG | ST | A | 1.0 |

High School Assessments: Met Not Met
Service Learning Hours: Met Not Met

GPA
Unweighted Grade Point Average 2.28 on a 4.0 scale.
Weighted Grade Point Average 2.41

School Year: 2009/2010 Grade: 09
PERRY HALL MIDDLE
Days Present: 170.5 Days Absent: 8.5

| Subject | Level | Final Grade | Credits Earned |
|--------------|-------|-------------|----------------|
| SPANISH I MS | ST | P | 1.0 |

School Year: 2013/2014 Grade: 12
CARVER CTR ARTS TECH
Days Present: 35.0 Days Absent: 0.0

| Subject | Level | Final Grade | Credits Earned |
|-------------------------------|-------|-------------|----------------|
| ENGLISH 12 | ST | | |
| ECONOMICS&PUBLIC ISSUES HON | H | | |
| BIOLOGY CONTEMP PROB-HSA PREP | ST | | |
| HEALTH 11/12 | ST | | |
| ENGR PRINCIPLES HON | H | | |
| COSMETOLOGY 9 HON MAG | H | | |
| SAT PREP-MATH | ST | | |
| STUDY SKILLS&VOC DEV | ST | | |

Rank in Class
Unweighted Rank:
Ranked 167 out of 199 students in the class.
Unweighted rank is based on 4.0 grading scale.

Weighted Rank:
Ranked 186 out of 199 students in the class.
Weighted rank is based on weighted GPA.

School Year: 2010/2011 Grade: 09
CARVER CTR ARTS TECH
Days Present: 175.0 Days Absent: 6.0

| Subject | Level | Final Grade | Credits Earned |
|--------------------------------|-------|-------------|----------------|
| ENGLISH 9 HON | H | E | |
| AMERICAN GOVERNMENT HON | H | D | 1.0 |
| MATH ASSISTANCE | ST | | |
| ALGEBRA 1 | ST | D | 1.0 |
| CONCEPTS OF PHYSICAL SCIENCE | ST | D | 1.0 |
| PE FITNESS FOUNDATIONS/MASTERY | ST | B | 1.0 |
| COSMETOLOGY 1 MAG | ST | C | 1.0 |
| COSMETOLOGY 2 MAG | ST | C | 1.0 |

School Year: 2011/2012 Grade: 10
CARVER CTR ARTS TECH
Days Present: 174.0 Days Absent: 7.0

| Subject | Level | Final Grade | Credits Earned |
|---------------------|-------|-------------|----------------|
| ENGLISH 9 | ST | B | 1.0 |
| ENGLISH 10 HON | H | D | 1.0 |
| THEATRE ARTS | ST | A | 0.5 |
| WORLD HISTORY HON | H | C | 1.0 |
| ALGEBRA 2 | ST | D | 1.0 |
| BIOLOGY HON | H | D | 1.0 |
| ART SEMINAR | ST | B | 0.5 |
| COSMETOLOGY 3 MAG | ST | C | 1.0 |
| COSMETOLOGY 4 MAG | ST | C | 1.0 |
| STDY SKILLS&V DEV 1 | ST | A | 1.0 |

Completed High School Program
 Earned a Maryland High School Diploma
Date of Completion: / /

George W. Carver Center For Arts & Technology
938 N York Road
Baltimore, MD 21204
Phone (410) 887-2775
Fax (410) 769-9114
CEE/ACT Code 211-025

Signature of Principal or Designee

Date:



Eligibility Criteria

- Must attend one of the target schools.
- Must have an interest in math and science
- Should have a grade point average of 2.7 or better
- Must have income eligible status, and/or first-generation college status

UMBC Target Schools

- Milford Mill High School
- New Town High School
- Parkville High School
- Woodlawn High School

Components



- **Academic Year Enrichment Program**
 - **Saturday Activities**
- Summer Residential Program
 - A six-week residential program on the University of Maryland Baltimore County Campus

Academic Year Program

- All Students will get support in four areas
 - Math – Ms. Cue
 - Science – Mr. White
 - English/Language Arts – Ms. Clarke
 - Academic Skills – Ms. T. Jefferson
- Transcript audits and individual counseling will be scheduled on a student-by-student basis.
- Senior Meetings will be embedded within the schedule
 - College applications
 - College readiness
 - Financial Aid
- Project Based Team STEM Activities

Fall Saturdays

- 8:30 a.m. – 2:00 p.m.
- 10/05, 10/26
- **11/09**, 11/23
- 11/8 - 9 – HBCU Festival (*tentative*)
- 12/07, 12/14
- Virtual Academy Dates for Jrs. & Srs.
– 10/12, 11/02, 11/16

Saturday Schedule

9th – 11th Graders

- 8:30 – 9:00 Breakfast
- 9:00 – 1:00 Classes
- 1:00 – 2:00 STEM Activity

12th Graders

- 8:30 – 9:00 Breakfast
- 9:00 – 1:00 Classes
- 1:00 – 2:00 College Readiness

Schedules will be created once students complete the Academic Year Form

https://www.emailmeform.com/builder/emf/UMBC_UBMS AY_Program_24-25_sign_up

Senior Schedule

- PRIORITY DEADLINES START **10/15/24**
 - **Most on 11/01/24**
- VIRTUAL (Google Meet)
 - 10/12, 11/02, 11/16
 - 11:00 am – 1:00 pm
- College Application COMPLETION
- Scholarship searches and applications

- **FAFSA COMPLETION DAY TBD**
 - FAFSA will not open until December 1st.
 - 11:00 AM – 2:00 PM
 - SENIORS AND PARENTS

Saturdays

- One bus route running in the morning and afternoon (same as last year)
- Continental breakfast
- If you miss the bus, you are responsible for getting your student to UMBC.
- There will be no supervision at the bus stops.

Bus Schedule



Morning

| Bus 1 - UBMS | | |
|--------------|--|----------------|
| Stop # | Stop | Time |
| 1 | Parkville HS 2600 Putty Hill Ave, Baltimore, MD | 7:00 AM |
| 2 | Franklin HS 12000 Reisterstown Rd, Reisterstown, MD | 7:30 AM |
| 3 | New Town HS 4931 New Town Blvd, Owings Mills, MD | 7:41 AM |
| 4 | Randallstown HS 4000 Offutt Rd, Randallstown, MD | 7:51 AM |
| 5 | Milford Mill Academy 3800 Washington Ave, Windsor Mill, MD | 8:02 AM |
| 6 | Woodlawn HS 1801 Woodlawn Dr, Gwynn Oak, MD | 8:14 AM |
| | UMBC - Administration Circle | 8:28 AM |

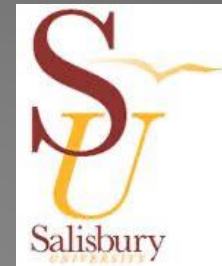
Afternoon

| Bus 1 - UBMS | | |
|--------------|--|----------------|
| Stop # | Stop | Time |
| 1 | UMBC - Administration Circle | 2:00 PM |
| 2 | Woodlawn HS 1801 Woodlawn Dr, Gwynn Oak, MD | 2:14 PM |
| 3 | Milford Mill Academy 3800 Washington Ave, Windsor Mill, MD | 2:26 PM |
| 4 | Randallstown HS 4000 Offutt Rd, Randallstown, MD | 2:37 PM |
| 5 | New Town HS 4931 New Town Blvd, Owings Mills, MD | 2:47 PM |
| 6 | Franklin HS 12000 Reisterstown Rd, Reisterstown, MD | 2:58 PM |
| 7 | Parkville HS 2600 Putty Hill Ave, Baltimore, MD | 3:28 PM |

Fall College Visit 10/3/24 with CUB



- Bus 1 - AM: Salisbury U (MD), PM: Delaware State U (DE)



- Bus 2 - AM: Villanova U (PA), PM: Cheyney U (PA)



- Bus 3 - AM: Howard U (DC), PM: George Washington U (DC)



ASBC HBCU Festival

- Friday 11/08/24 – Virtual – 4:00 PM – 8:00 PM
- Saturday 11/09/24 – In-Person – The St. James Sports Complex
 - **Preregistration required**
 - 9:00 AM – 4:00 PM
 - On Site interviews & Auditions
 - 82 HBCUs
 - Wear your program t shirts

Fall Test Dates

SAT Test Dates (*Registration Deadlines*)

- 10/05/24 (9/20, 9/24)
- 11/02/23 (10/18, 10/22)
- **12/07/23** (11/22, 11/26)

ACT Test Dates (*Registration Deadlines*)

- 10/26/24 (9/20, 10/7)
- 12/14/24 (11/08, 11/22)

PSAT/NMSQT – October 2024 – **DIGITAL!**

Digital SAT



What's Staying the Same?

- Still measuring the knowledge and skills that matter most for universities.
- Still scored on a 1600 scale.
- Still administering in schools or test centers with a proctor present (not at home). Test centers will continue to be open to all students, not just those enrolled in that school.
- Still offering access to free, world-class practice resources.
- Still supporting all students, including those who need accommodations on test day.

What's Changing?

- You'll take the SAT on a laptop or tablet.
- You'll take a shorter test, about 3 hours instead of 4.
- You'll have shorter reading passages instead of a few long texts.
- You'll be allowed to use your calculator on the entire math section and there's a calculator built right into the digital testing application.

Khan Academy



- Academic Support for all courses:
 - Math, Science & Engineering, Arts & Humanities, Economics, Computer Science
- Only official online partner with College Board
 - PSAT and SAT preparation materials
- Parents can monitor progress and activities
- Can use all year not just with us
- Online and iOS and Android App.

Participation Requirements

- To be eligible for the Summer Residential Program Students must:
 - Attend at least two AY sessions per semester
 - Pass all classes
 - Submit progress report and report card each quarter
 - Submit standardized test scores
- Priority for returning students to participate in the summer will be given to students who participate most consistently in the AY program based on a **point system**.

Expectations for Students

- SHOW UP FOR ALL REQUIRED SESSIONS
- BE ON TIME
- BE appropriate
- **Follow all university and program rules, regulations, policies, and procedures as stated in the Program Handbook**
- Seek assistance when necessary
- Complete all assignments on time, accurately and neatly
- Be an active participant
- Be open to new ideas and experiences

To be early is to be on time
To be on time is to be late
To be late is UNACCEPTABLE !

--Mantra
Morehouse College

Expectations for Parents

- Ensure that your students follow all University and program rules, regulations, policies, and procedures as stated in the Program Handbook
- Let us know if there are issues with technology or access ASAP.
- Seek counsel when necessary
- Submit updated records as required (test scores, report cards, schedules, etc...)
- Be an active participant
- Be open to new ideas and experiences

Support YOUR Students!

UBMS Parent Association

- “The child supplies the power but the parents have to do the steering.”
 - Benjamin Spock
- “We may not be able to prepare the future for our children, but we can at least prepare our children for the future.”
 - Franklin D. Roosevelt

Evaluation of Progress and Achievement



- Academic Year
 - Transcripts, Test scores, and IEPs
 - Communication with guidance counselors at the schools
- Summer Program
 - Progress Reports (biweekly)
 - Final Transcript

Technology Initiatives

- Website - www.ubms.umbc.edu/
- Email Listservs - Moderated
 - All Students - ubms.students-group@umbc.edu
 - Seniors - ubms.seniors-group@umbc.edu



Group Page – UBMS@UMBC



@UBMSUMBC



ubmsumbc

Academic Year Form



https://www.emailmeform.com/builder/emf/UMBC_UBMS/AY_Program_24-25_sign_up

Conclusion Contact Information



Telephone: 410-455-3677
Toll Free 1-800-353-8622 (selection #8)
Fax: 410-455-1183



Send mail to:

Upward Bound Math and Science Center
University of Maryland Baltimore County
M/P 006
1000 Hilltop Circle
Baltimore, MD 21250

Director:
Sundiata Jangha
(c) 410-262-4255
sjangha@umbc.edu

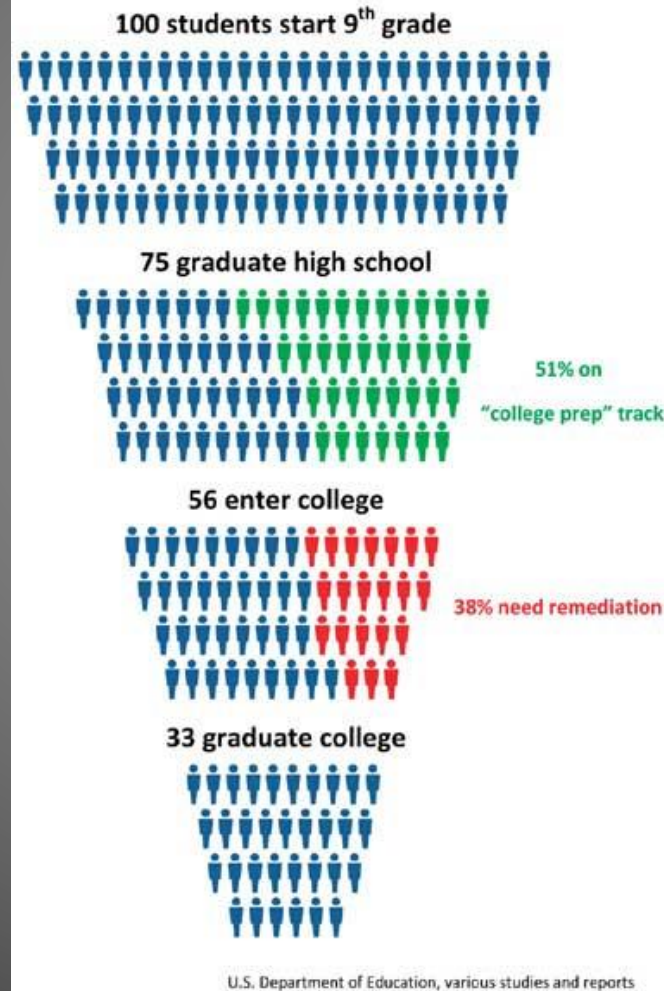
Program Coordinator:
Dedrick A. Muhammad
(c) 410-262-4829
dmuhamma@umbc.edu

UBMS@UMBC.EDU

Office Coordinator
Briana Mattei
bmattei1@umbc.edu

Why is this Important?

Note: This chart describes the completion rate – the percentage that graduates of a particular cohort of students. The attainment rate, most frequently cited in international comparisons, reflects the percentage of the population with an associate degree or higher.



Maryland Education

MARYLAND'S Educational Pipeline



In Maryland, for every 100 ninth grade students ...



... 75 students graduate from high school four years later.



... 45 students immediately enter college.



... 32 students are still enrolled in their second year.



... 19 students graduate with either an associate's degree within three years or a bachelor's degree within six years.

STEM Education

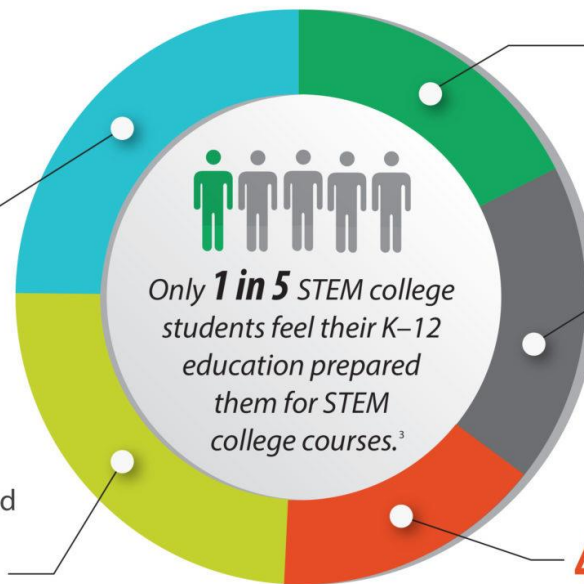
The State of American Youth

63%

of high school graduates are not prepared for college-level science & 57% are not prepared for college level math.¹

26

The number of industrialized nations whose high school students performed better than U.S. students in math in 2012.²



63%

Nearly two-thirds of American teens have never considered a career in engineering.⁴

21st

U.S. 15-year-olds currently rank 21st in science test scores among 34 developed nations.⁵

43%

of female high school graduates said math was one of their favorite subjects, compared to 50% of male high school graduates.⁶

Sources:

1. ACT. The Condition of College & Career Readiness, 2014
<http://www.act.org/research/policymakers/cccr14/pdf/CCCR14-NationalReadinessRpt.pdf>
2. <http://nces.ed.gov/surveys/pisa/pisa2012/index.asp>
3. Harris Interactive Study: STEM Perceptions: Student & Parent Study commissioned by Microsoft 2011

4. Penn Schoen and Berland (PSB)
5. OECD PISA Assessment, 2012
6. National Center for Education Statistics, U.S. Department of Education, 2015

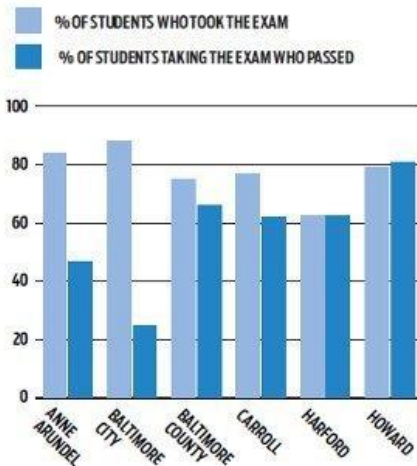
AP Data

Advanced Placement

Not all AP students take the exam. The percentage of students taking and passing an AP exam varies between districts.

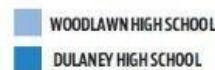
AP PASS RATES BY DISTRICT, 2011-2012

Percentage of students who took the exam and earned a score of 3 or better.

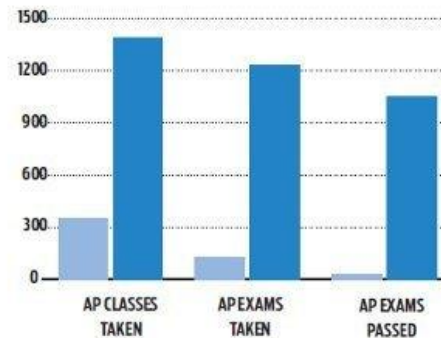


Comparing Woodlawn and Dulaney high schools

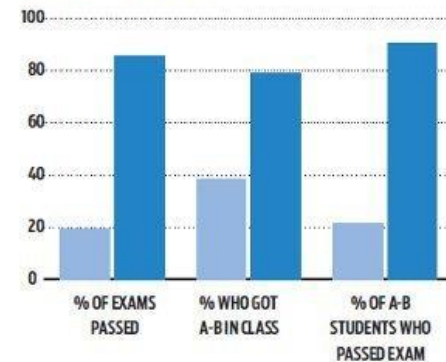
AP classes, exams, and scores examined between two Baltimore County high schools.



BY NUMBERS



BY PERCENTAGES



Data analysis by Douglas Ready, associate professor at Teachers College at Columbia University.

SOURCE: individual school districts

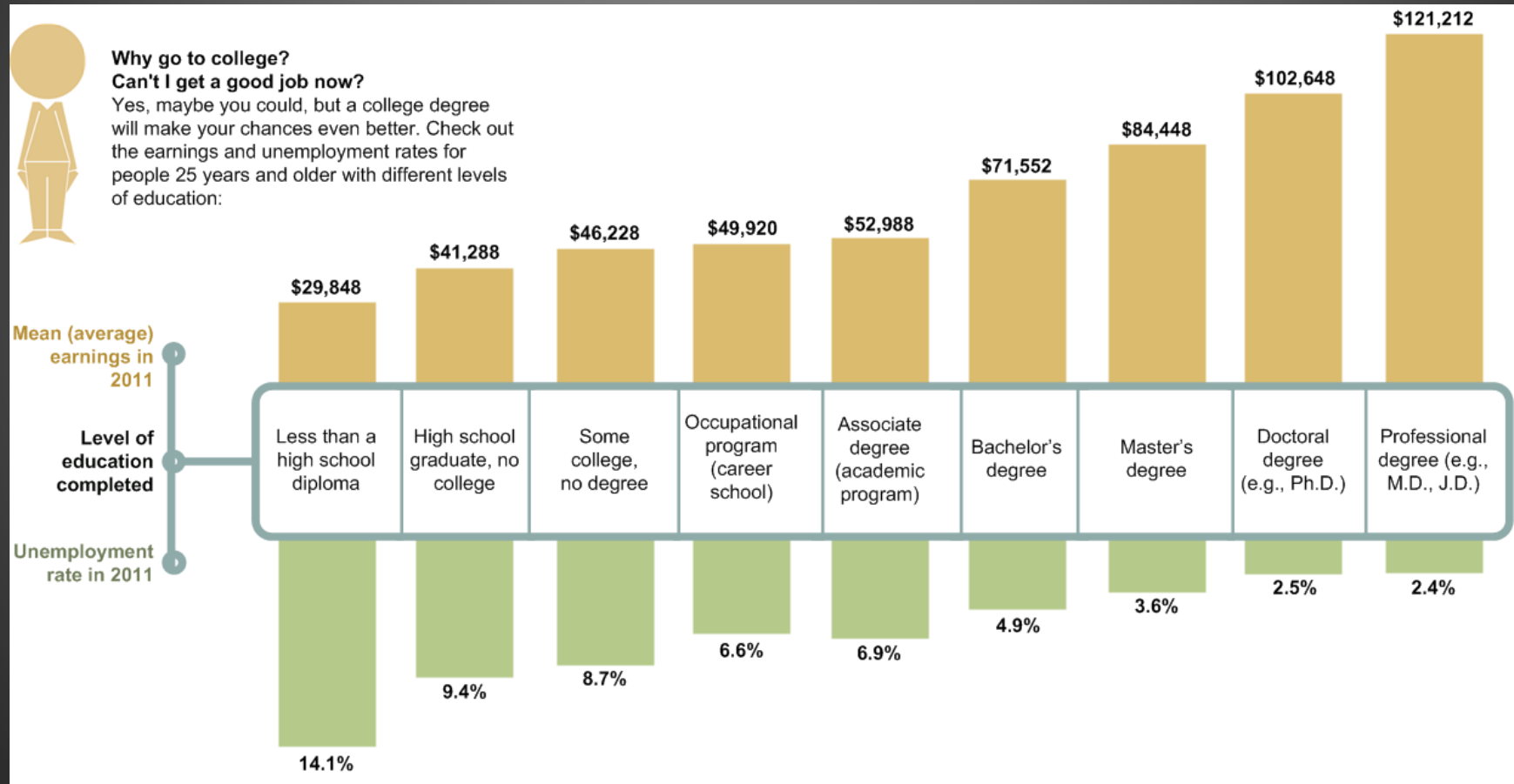
ADAM MARTON / BALTIMORE SUN GRAPHIC

How Education Matter\$



**Why go to college?
Can't I get a good job now?**

Yes, maybe you could, but a college degree will make your chances even better. Check out the earnings and unemployment rates for people 25 years and older with different levels of education:



Source: Bureau of Labor Statistics, Current Population Survey, unpublished tables, 2012.

The STEM Workforce

The State of America's Workforce



UNITED STATES

40%

of U.S. companies report difficulty in filling positions because of a lack of STEM skills.¹

INTERNATIONAL

\$2.5 Trillion

The U.S. would gain an extra \$2.5 trillion in Gross Domestic Product between now and 2050 if its students scored at the international average on math and science tests.²

27%

of the new high-skills jobs related to agriculture that will be created in the next five years will require a STEM education.³

86%

of engineers and 74 percent of computer professionals are men.⁴

14%

of the engineering workforce is made up of women.⁴

21%

STEM employees earn 21% more than individuals in non-STEM fields.⁵

10%

Underrepresented minorities hold only 10% of science and engineering jobs despite making up over a quarter of the U.S. population age 21 and older.⁶



Sources:

1. Brookings Institution, Still Searching: Job Vacancies and STEM Skills, 2014

2. Washington Center for Equitable Growth, January 2015

3. <https://www.purdue.edu/usda/employment/wp-content/uploads/2015/04/2-Page-USDA-Employ.pdf>

4. CTEq analysis of U.S. Census Bureau report on STEM college graduates, 2014

5. Brookings Institution, Still Searching: Job Vacancies and STEM Skills, 2014

6. National Science Foundation, Science & Engineering Indicators, 2013