

UMBC Upward Bound Math & Science

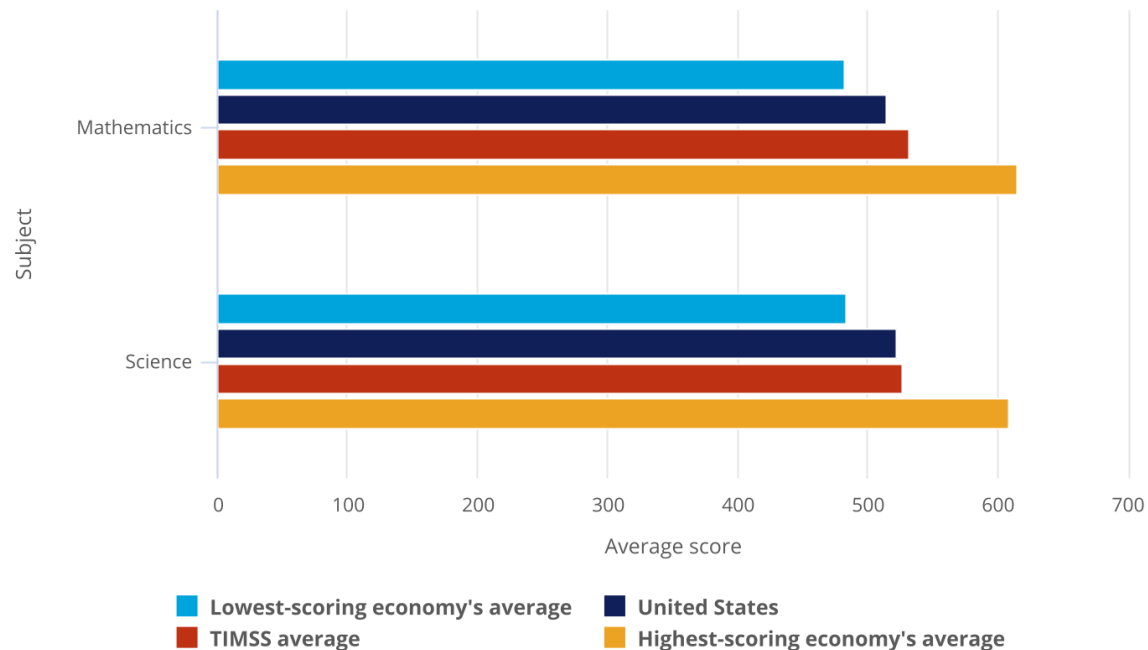
**Summer Enrichment Program
Parent/Student Orientation
June 14, 2025**

STEM Education

National Center for Science and Engineering Statistics | NSB-2024-3

Figure 1

Average TIMSS mathematics and science scores of students in grade 8 among participating advanced economies: 2019



Note(s):

TIMSS is Trends in International Mathematics and Science Study. The scale for TIMSS scores is 0–1,000.

Source(s):

International Association for the Evaluation of Educational Achievement, TIMSS, 2019.

Indicators 2024: K–12 Education

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%

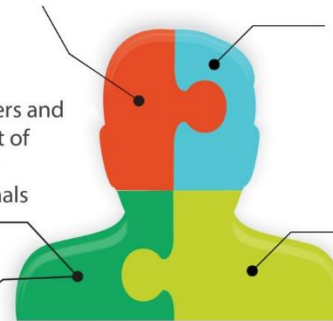
of the new high-skills jobs related to agriculture that will be created in the next five years will require a STEM education.³

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

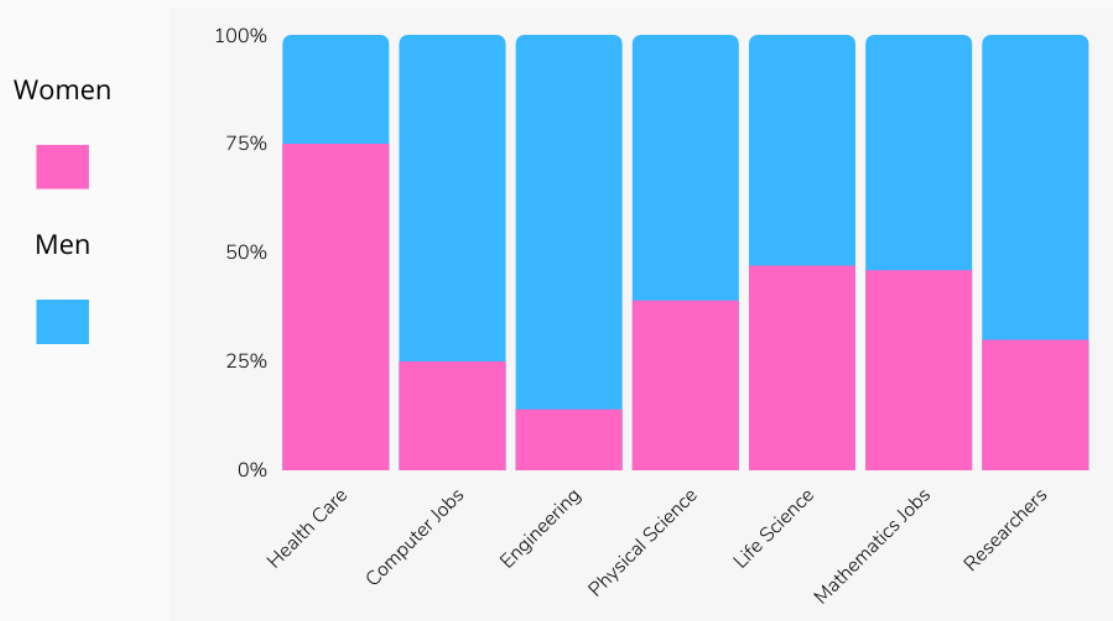
10%

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

STEM EMPLOYMENT BY GENDER PERCENTAGES



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.**

Agenda

- Introduction
- Program Objectives
- Eligibility Criteria
- Summer Enrichment Program
 - Schedules
 - Activities
 - Curriculum
- Summer Staff
- Expectations
- Evaluation of Progress and Achievement
- Summer Paperwork
- Review of Handbook & Camp Documents
- Academic Year Program
- Conclusion

Program Objectives

1. Academic Performance (GPA)

- **65%** of participants served during the project year will have a cumulative GPA of 2.5 or better on a four-point scale at the end of the school year.
- **77% (REPORT CARDS & TRANSCRIPTS)**

Program Objectives

2. Academic Performance (Standardized Test Scores)

- **30%** of UBMS seniors served during the project year, will have achieved at the proficient level on the state assessments in reading/language arts and math.
- **100%**

Program Objectives

3. Secondary School Retention and Graduation (With Regular Secondary School Diploma)

- **90%** of UBMS project participants served during the project year will continue in school for the next academic year, at the next grade level, or will have graduated from secondary school with a regular secondary school diploma.
- **100%**

Program Objectives

4. Secondary School Graduation (Rigorous Secondary School Program of Study)
 - **80%** of all current and prior UBMS participants, who at the time of entrance into the project had and expected high school graduation date in the school year, will complete a rigorous secondary school program of study and graduate in that school year with a regular secondary school diploma.
 - **100%**

Program Objectives

5. Postsecondary Enrollment

- **75%** of all current and prior UBMS participants, who at the time of entrance into the project had an expected high school graduation date in the school year, will enroll in a program of postsecondary education by the fall term immediately following high school graduation or will have received notification, by the fall term immediately following high school, from an institution of higher education, of acceptance but deferred enrollment until the next academic semester (e.g. spring semester).
- **91%**

Where are They Now?

Class of 2023

In State

- CCBC
- Coppin State U.
- Frederick CC
- McDaniel C.
- Morgan State U.
- Towson U.
- UMD

Out of State

- Culinary Institute of America

Program Objectives

6. Postsecondary Completion

- **60%** of UBMS participants who enrolled in a program of postsecondary education, by the fall term immediately following high school graduation or by the next academic term (e.g., spring term) as a result of acceptance by deferred enrollment, will attain either an associate's or bachelor's degree within six years following graduation from high school.
- **43%**

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 - BCPS

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

Components

- Summer Enrichment Program
 - A six-week Academic program
- Academic Year Instructional Program
 - Biweekly Saturday Program

Summer Enrichment Program

- 6 weeks of academic programming
- **COMMUTING** Program Weeks 1 & 2
 - June 23rd – July 3rd
 - Monday Morning – Friday afternoon
- **RESIDENTIAL** Program Weeks 3-6
 - July 6th – July 25th
 - Sunday evening – Friday afternoon
 - Chesapeake Hall (Tentative)
 - All room and board costs covered by program
- Professional Development July 28th – 29th
- College Jumpstart (Class of 25) July 28th – 29th
- **College Tour** July 30th – August 2nd

Weeks 1 & 2 Daily Schedule (COMMUTING)

- 8:00 – 8:45 Breakfast & Check-in
- 9:00 – 11:50 Morning classes
- 12:05 – 12:45 Lunch
- 1:00 – 3:50 Afternoon classes
- 4:00 – 4:50 Study Hall
- 5:00 – Buses Depart

Morning Bus Schedule

Morning

Bus 1 - UBMS			Bus 2 - CUB		
Stop #	Stop	Time	Stop #	Stop	Time
1	Franklin HS 12000 Reisterstown Rd, Reisterstown, MD	7:00 AM	1	Parkville HS 2600 Putty Hill Ave, Baltimore, MD	6:45 AM
2	New Town HS 4931 New Town Blvd, Owings Mills, MD	7:11 AM	2	Overlea HS 5401 Kenwood Ave, Baltimore, MD	6:56 AM
3	Randallstown HS 4000 Offutt Rd, Randallstown, MD	7:21 AM	3	CCBC - Essex 7201 Rossville Blvd, Baltimore, MD	7:03 AM
4	Milford Mill Academy 3800 Washington Ave, Windsor Mill, MD	7:32 AM	4	Middle River MS 800 Middle River Rd, Baltimore, MD	7:11 AM
5	Woodlawn HS 1801 Woodlawn Dr, Gwynn Oak, MD	7:44 AM	5	Deep Creek ES 1101 E Homberg Ave, Baltimore, MD	7:21 AM
6	UMBC - TRUE GRITS 1000 Hilltop Circle, Baltimore, MD 21250	7:58 AM	6	Deep Creek MS 1000 S Marlyn Ave, Essex, MD	7:27 AM
			7	UMBC - TRUE GRITS	7:55 AM

Afternoon Bus Schedule

Afternoon

1 - UBMS			Bus 2 - CUB		
Stop #	Stop	Time	Stop #	Stop	Time
1	UMBC - Administration Circle	5:00 PM	1	UMBC - Administration Circle	5:00 PM
2	Woodlawn HS	5:14 PM	2	Deep Creek MS	5:28 PM
	1801 Woodlawn Dr, Gwynn Oak, MD			1000 S Marlyn Ave, Essex, MD	
3	Milford Mill Academy	5:26 PM	3	Deep Creek ES	5:34 PM
	3800 Washington Ave, Windsor Mill, MD			1101 E Homberg Ave, Baltimore, MD	
4	Randallstown HS	5:37 PM	4	Middle River MS	5:44 PM
	4000 Offutt Rd, Randallstown, MD			800 Middle River Rd, Baltimore, MD	
5	New Town HS	5:47 PM	5	CCBC - Essex	5:52 PM
	4931 New Town Blvd, Owings Mills, MD			7201 Rossville Blvd, Baltimore, MD	
6	Franklin HS	5:58 PM	6	Overlea HS	5:59 PM
	12000 Reisterstown Rd, Reisterstown, MD			5401 Kenwood Ave, Baltimore, MD	
			7	Parkville HS	6:10 PM
				2600 Putty Hill Ave, Baltimore, MD	

Move-in Schedule

Sunday July 6th

- 4:00 – 6:00 Students move in
- 6:30 – 8:00 Dinner & Program Meeting
- 8:00 – 11:00 Settling in
- 11:00 Everyone in their dorm room
- 11:30 Lights OUT !

Weekend Schedule

- **Fridays**

- 4:00 – 6:00 Students Check out

- **Sundays**

- 6:00 – 7:00 Students return

- 7:00 – 9:00 Program Meeting

- 9:00 Recreation (Students)

- 10:00 Everyone in their dorm room

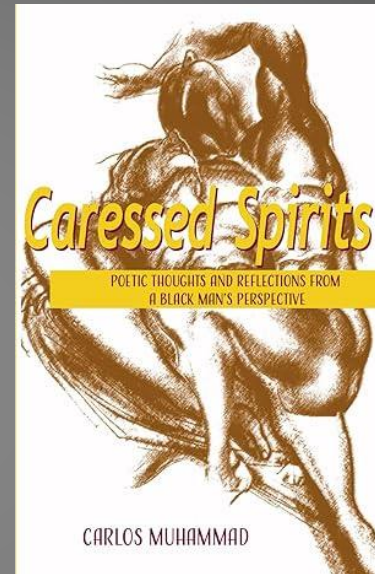
- 11:00 Lights OUT !

Daily Schedule - Residential

- 7:00 – 8:00 Waking up and preparing for the day.
- 8:00 – 8:45 Breakfast
- 9:00 – 11:50 Morning classes
- 12:05 – 12:45 Lunch
- 1:00 – 3:50 Afternoon classes
- 4:00 – 4:50 Study Hall
- 5:00 – 5:50 Dinner
- 6:00 – 8:00 Recreation
- 8:00 – 10:00 Free Time / Group Activities
- 10:00 -11:00 Students in dorm rooms
- **11:00** **Lights out!!!!!!!!!!**

Summer Residential Program Curriculum

- English
 - Composition 1 & 2
 - Reading Comprehension
 - Advanced Writing 1 & 2
 - Literature
- Math (varies by grade)
- Science (varies by grade)
- Academic Skills Development
- Spanish
- Black History



Summer Instructors

- **Tyondra Jefferson** – Building an Academic Mindset, College Prep
- **Dr. Michael Adeniyi** – SAT Math, Calculus, Precalculus
- **Angela Fields** – Algebra I, Algebra II, Geometry
- **Stephanie Clarke** – Composition 1 & 2, Reading Comprehension
- **Theresa Antoine** – Advanced Writing 1 & 2, Literature
- **Courtney Mosley** – Biology, Earth Science, Chemistry, Physics
- **Ashanté Lucombe** – Black History & Culture
- **Stephanie Wells** – Spanish

Summer Staff

- **Residential Directors**

- Dorlene Ricks
- Corey Witherspoon

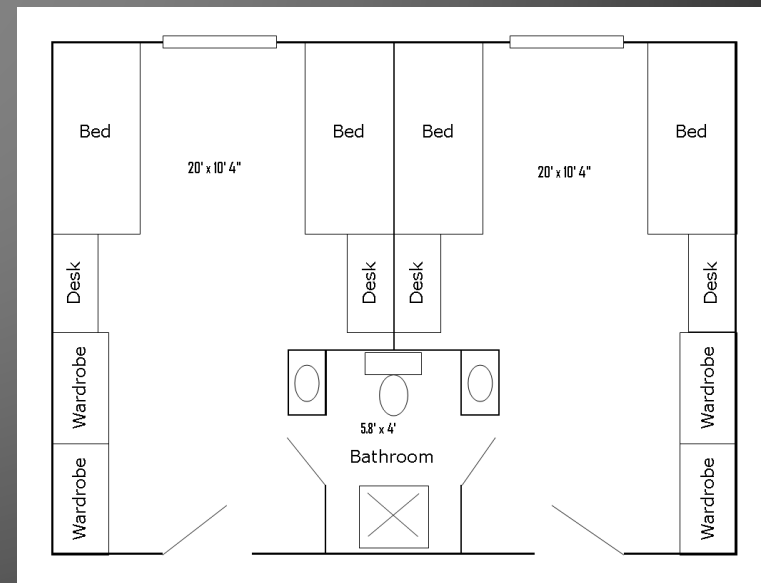
- **Counselors**

- Day
 - A'nya Jackson (UBMS Alum) – Lead
 - Amani Murray
 - Anwi Tadzong
- Night
 - Precious Adetayo-Oguntade
 - Cenia Sims
 - Gabriel Vaughn

Residence Hall - Potomac



Residence Hall – Potomac



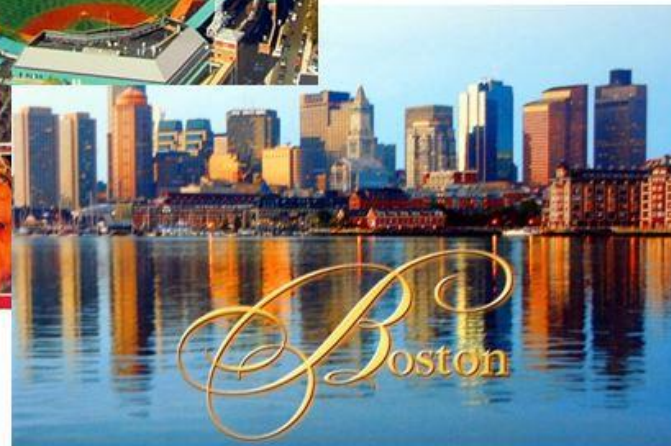
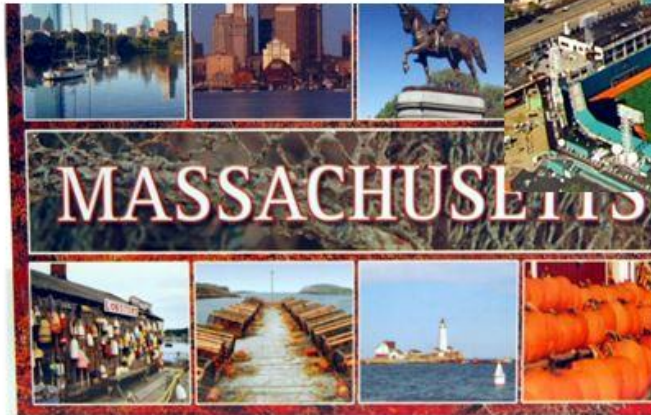
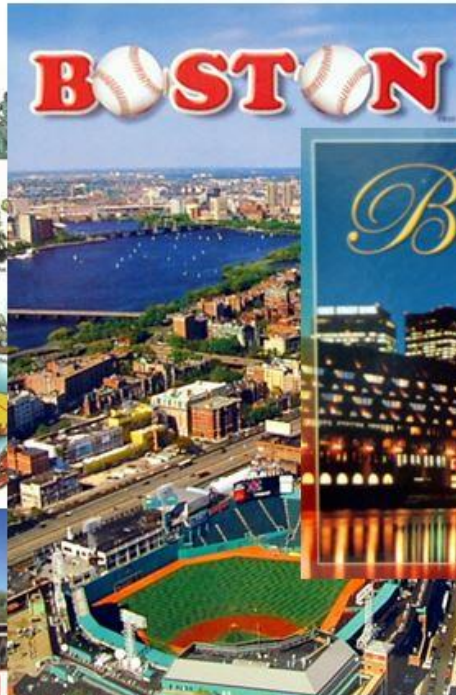
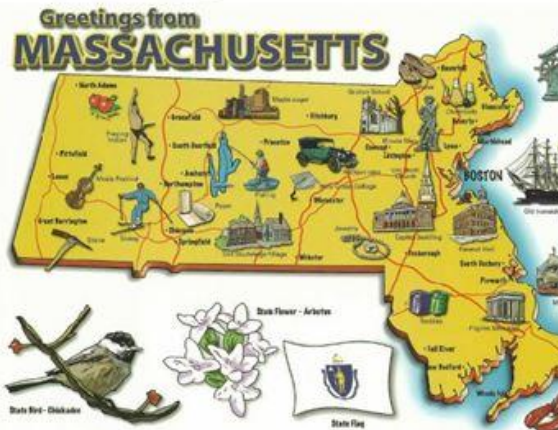
Summer Technology Requirements

- We will be using Blackboard for our online instruction
 - Coach Classes
 - Assignments and materials
 - Exams and Quizzes
- You will need to use your UMBC ID and email to log in to computer labs
- ALL communication will be through your UMBC email address

College Tour 7/30 – 8/02

Boston, MA

Greetings from Massachusetts Postcard



College Tour – 7/30 – 8/2

WED
7/28

THU
7/29

FRI
7/30



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.

Stipend

- The in-person stipends of \$90 for the summer.
- Students **MUST PASS ALL CLASSES** (C or better) in order to be eligible for the stipend.
- Failure to participate in all required activities may reduce your stipend.

Expectations for Students

- SHOW UP FOR ALL REQUIRED SESSIONS
- BE ON TIME
- Maintain a B or better grade point average
- **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!

Mid-Summer Review

- At the end of week two, each student's conduct will be reviewed to determine continued participation.
- Parents will be notified after each program week if their student is failing to meet program expectations.
- Metrics for assessment:
 - Academic
 - Students must maintain a grade of "C" or better in all classes
 - Students must complete and submit all assignments
 - Behavior
 - Participation in program activities
 - Adherence to program policies
 - Respectful interaction with other participants and program staff

Mid-Summer Review

- Review Outcomes
 - Good Standing
 - Probation
 - Students have a follow up review weeks(s) 3, 4, & 5 (if needed)
 - Any student still on probation after week 5 will:
 - not receive a stipend for the summer
 - Dismissal
 - Students who are dismissed are still UBMS participants and are expected to participate in the academic year program.
 - Students who are dismissed from the SRP will not receive a stipend.

Evaluation of Progress and Achievement

- Summer Program
 - Progress Reports (updated weekly)
 - Final Transcript
- Academic Year
 - Transcripts, Test scores, and IDPs
 - Communication with guidance counselors and advocates at the schools

Summer Paperwork

TRIO Upward Bound Math and Science Program

[Welcome](#)
[About Us](#)
[Participants](#)
[2024 Summer Enrichment Program](#)
[23-24 Academic Year Program](#)
[TRIO WORKS!](#)

2024 Summer Enrichment Program

Location

Math/Psychology Bldg
Rm. 006

Contact

Phone: (410) 455-3677

Fax: (410) 455-1183

[Contact Us](#)

[Instagram](#)

2024 Summer Enrichment Program

Welcome to the Upward Bound Math and Science Summer Enrichment Program

FOR CURRENT I

THIS IS NOT THE F
applicant, you must
BEFORE you can r

Summer is here! We are all w
all endured unprecedented t
what we can do to help you be
students residing on campus
attend this summer, it is imper

The 2024 SRP will run from Ju
enriching academic, cultural a

[2023 SUMMER RESIDENTIAL PROGRAM ORIENTATION PRESENTATION](#)

STEPS TO REGISTER FOR THE SUMMER PROGRAM

- Complete the online [Summer Confirmation](#)

STEP 1

- Complete the digital [SRP Confirmation Packet 2024](#) fillable and return it to ubms@umbc.edu

STEP 2

[2023 SUMMER](#)

STEPS TO REGISTER FOR THE

- Complete the online [S](#)
- Complete the digital [S](#)

- Print out the following forms, complete them, sign them, and return them to ubms@umbc.edu

1. [SRP Bottom Line Agreement](#)

2. [UBMS-Program Waiver](#)

- Print out the following forms, complete them, sign them, and return them to ubms@umbc.edu

1. [SRP Bottom Line Agreement](#)

2. [UBMS-Program Waiver](#)

OR

<https://ubms.umbc.edu/2025-summer-residential-program/>

Summer Paperwork

- UBMS Program Waiver and Release Agreement
- Bottom Line Agreement
- Consent to Administer Medicine
- Updated Contact Information Sheet (if info has changed)
- BCPS Transcript Release Waiver
- Camp Plans Acknowledgement
- W9

Review

- Program Handbook
 - Bottom-Line Agreement
 - Dress Code Guidelines
 - Supplies
- Camp Documents
 - Transportation Safety Plan
 - Emergency Plan
 - Trip Safety Plan

Program Handbook – Important Rules

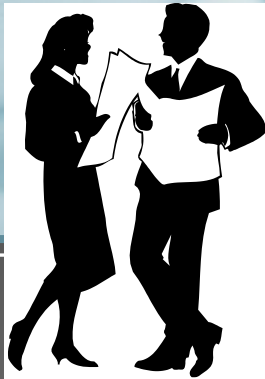
- Academic Space Rules
 - **NO CELL PHONES** during the day (8 AM – 5 PM)
 - This applies to all personal electronics including **headphones/earbuds**
 - Students are to be prepared for work every day and on time for all classes.
 - Sleeping in class will not be permitted.
 - Profanity is unacceptable.
 - No excessive noise (loud talking, laughing, etc.) is permitted in any classroom, hallways, labs, etc. on the UMBC campus.
- Dorm Rules
 - A male student may never be in a female student's room and a female student may never be in a male student's room
 - Cooking, use of hot plates, toasters, toaster ovens, microwaves, etc. in dorm rooms is prohibited.
 - No televisions or game systems

BOTTOM-LINE AGREEMENT

(Infractions may result in dismissal from the program)

I agree to abide by all rules of the UMBC Upward Bound Program and will following these essential regulations while attending the UMBC Upward Bound program:

1. I agree not to bring, possess, sell or consume ALCOHOL.
2. I agree not to bring, possess, or consume any substance not prescribed by my doctor. I also agree not to sell any DRUG, medication or substance.
3. I agree not to POSSESS, SMOKE or CHEW tobacco products.
4. I agree not to PHYSICALLY ASSAULT, VERBALLY ABUSE or SEXUALLY HARASS anyone.
5. I agree not to engage in SEXUAL ACTIVITY.
6. I understand that males are not allowed on the females' floor and females are not allowed on the males' floor without a staff escort.
7. I agree not to VANDALIZE or STEAL UMBC, the Upward Bound Program or anyone's property.
8. I agree not to CHEAT or PLAGIARIZE (steal another's work).
9. I agree not to bring, possess or use WEAPONS or engage in TERRORISTIC THREATENING.
10. I agree not to GAMBLE.
11. I agree not to bring, possess or use FIREWORKS.
12. I agree not to prop open doors because it is a FIRE HAZARD.



DRESS CODE GUIDELINES

The following dress code guidelines apply to all participants (staff and students) in the Upward Bound Mathematics and Science Program.

1. Wednesday is **BUSINESS DRESS DAY**. All students and staff are expected to wear business attire.
 (Males: shirt and tie, dress pants, or suit)
 (Females: dress, skirt/slacks and blouse, or suit)
2. **NO** bare midriffs.
3. **NO** off-the-shoulder shirts/blouses.
4. **NO** see-through material.
5. **NO** clothing which exposes the torso or upper thighs.
6. **NO** tight fitting pants and/or shirts/blouses.
7. **NO** low-rise pants.
8. **NO** low-cut blouses.
9. **NO** head coverings during campus-class time (except for religious reasons).
Exception: Head coverings are a requirement when visiting environmental sites and performing scientific investigations outdoors.
10. **NO** thongs (flip-flops) outside of the dorm for safety reasons. Construction on campus poses many safety hazards for feet if they are not properly covered.
11. **ALL** skirts or shorts must be mid-thigh length or longer.



WHAT TO BRING

WE WILL PROVIDE:

For Class:

- Pencils, pens
- Small spiral notebook or composition book as requested by the instructor.
- Highlighters
- Calculator
- USB Drive

YOU WILL NEED TO BRING:

For The Dorm:

- Clothing for one to two weeks
- Sheets, pillowcases, spread, and thin blanket for a twin-size bed
- Towels and wash cloths
- Toiletries (soap, deodorant, toothpaste, toothbrush, feminine products, etc.)
- Sturdy walking shoes - Students must wear closed-toed shoes during their science class (after lunch)
- Umbrella and/or rain gear
- Money for snacks, personal expenses, and laundry (\$.75/load)
- Water bottle
- Head covering, for outdoor activities
- Small wastebasket
- Small supply of cleaning products, such as Lysol spray, Mr. Clean liquid, sponges, etc.
- First aid kit that contains your personal medicines and items such as band aides, insect repellent, tissues, etc.
- Plastic containers for storage of non-perishable foods.
- At least one set of professional clothing to be worn on Business Dress Day (Wednesdays)
(Males: ties, dress pants, and sports jacket or suit)
(Females: dress, skirt and blouse, or suit)

Seniors should bring any college/university applications so that they may receive help to complete them.

UBMS is not responsible for any lost or stolen items. Students are responsible for the safe keeping of any items they bring to the program.

Chromebooks will be available to any student who needs one.

If you already have a UBMS Chromebook, you can still use it, but you **MUST** bring it on the first day.

AOP Transportation Safety Plan - Highlights

- Pick-up and Drop-off
- Inclement Weather
- Accident Procedures
- Evacuation Procedures
- Emergency Equipment
- Roles and Responsibilities

AOP Emergency Plan - Highlights

- Communication
- Staff Responsibilities
- Attendance during an emergency
- Missing person procedure
- Evacuation Locations on campus

AOP Trip Safety Plan - Highlights

- Staffing
- Trip Guide
- Attendance Procedures
- Field Trip Checklist

Confirmed Students

Complete

First Name	Last Name	Grade
<u>Complete</u>		
Morolaoluwa	Adeniji	9th
Omotola	Adeniji	11th
Paul	Agbenyeku	11th
Toluwanimi	Akingbehin	11th
Eniola	Akinpelu	11th
Oluwatomi	Akinpelu	10th
Destiny	Ansah	11th
Egoh	Aparandi	12th
Adekunbi	Ayanfemi	11th
David	Ayoko	12th
Richard	Donaldson	10th
Mojola	Falodun	10th
David	Hendricks	12th
Abisola	Job	10th
Dammy	Kassim	12th
Zainab	Mikhail-Olaiya	10th
Aaron	Ogabo	11th
Habeebat	Owolabi	10th

First Name	Last Name	Grade
<u>Complete</u>		
Ayomide	Oyejide	10th
Oluwatomisin	Soretire	11th
Gloria	Taiwo	11th
Princess	Uzoma	10th
Quinn	White Jr	10th
Zaire	Wiggs	12th
Aubre	Williams	11th

Incomplete

First Name	Last Name	Grade
<u>Need Signatures</u>		
Fade	Sinaayo	12th
Madison	Walker	11th
<u>Incomplete</u>		
Faith	Abidakun	11th
Fade	Sinaayo	12th

Academic Year Activities

What we have been doing...

- Academic Classes
- Curriculum Support and tutoring
- Field Trips
- College tours
- Social/Recreational Activities

How do we make this more effective?

What are your:

- Needs
- Issues
- Goals

Parent Association

- Volunteer only
- Types of functions
 - Communication
 - Fundraising
 - Transportation
 - Chaperoning
 - Volunteering in the Program Office
 - Identifying and sharing value-added activities
 - Parent's University

Volunteers?

Connect with us

- Website
 - www.ubms.umbc.edu
- Email Listservs
 - Moderated
 - All Students - ubms.students-group@umbc.edu
 - Seniors - ubms.seniors-group@umbc.edu
 - Open (to all list subscribers)
 - Parents - ubms.parents-group@umbc.edu



Group Page – UBMS@UMBC



@UBMSUMBC

Conclusion

Contact Information

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

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

Send mail to:

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

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

Office Coordinator:
Briana Mattei
bmattei1@umbc.edu

UBMS@UMBC.EDU

