



# NMSI'S COLLEGE READINESS PROGRAM

**McGuffey High School**  
**September 2016**



# Introduction

- **What is Advanced Placement (AP)?**
- **Who is the National Math and Science Initiative (NMSI)?**
- **What is NMSI's College Readiness Program?**
- **How will NMSI's College Readiness Program benefit your district?**



# What is AP?

- **AP courses are college-level courses offered to students while still attending high school.**
- **Courses reflect what is taught in top introductory college courses.**
- **Students take an AP exam at the end of each course, measuring their mastery of college-level work.**
- **A score of 3,4, or 5 on an AP exam can typically earn students college credit and/or placement into advanced college courses.**





# AP MSE Courses at McGuffey

- **English:**

AP English Language / AP English Literature

- **Math:**

AP Calculus AB / AP Statistics

- **Science:**

AP Biology / AP Chemistry / AP Physics



# Benefits of AP

## **Students learn rigorous college-level content and skills:**

- Taking an AP course helps students build critical thinking skills, confidence, and the essential time-management and study skills needed for college success.
- Nationally, research shows that students who score a 3 or higher on an AP exam typically earn higher grade point averages in college and have higher graduation rates than their non-AP peers.



# Benefits of AP

(continued)

## **Taking AP is valued in the college admission process:**

- 85% of selective colleges and universities report that a student's AP experience favorably impacts admission decisions.
- Colleges rank grades in college-preparatory courses and strength of curriculum as the two top factors in the admission decision.
- AP courses tell college admission officials that students are challenging themselves and preparing for the rigors they'll encounter in their college careers.





# Benefits of AP at University of Pittsburgh

Exam	Min. Score Req.	No. of Credits
Biology	4 5	4 8
Calculus AB	4	4
Calculus BC	4	8
Chemistry	3 5	4 8
Computer Science	4	4
English Language	4 5 + 600 SAT Verbal	3 6
English Literature	4 5 + 600 SAT Verbal	3 6

Exam	Min. Score Req.	No. of Credits
European History	4	3
Macro/Microeconomics	4	3
Physics 1&2	4 5	3 6
Physics C	4	4
Psychology	4	3
Statistics	4	4
US Government	3	3
US History	4	3
* Offered at McGuffey High School		



# National Math + Science Initiative

Who We Are, What We Do, and How We Do It

- **NMSI** is a nonprofit organization, launched in 2007 by top leaders in business, education and science to transform education in the United States.
- **Our Mission:** To inspire, engage and empower all students to succeed in today's knowledge economy by advancing STEM teaching and learning.

**Our Vision:** Every student graduates from high school prepared to succeed in college and career.

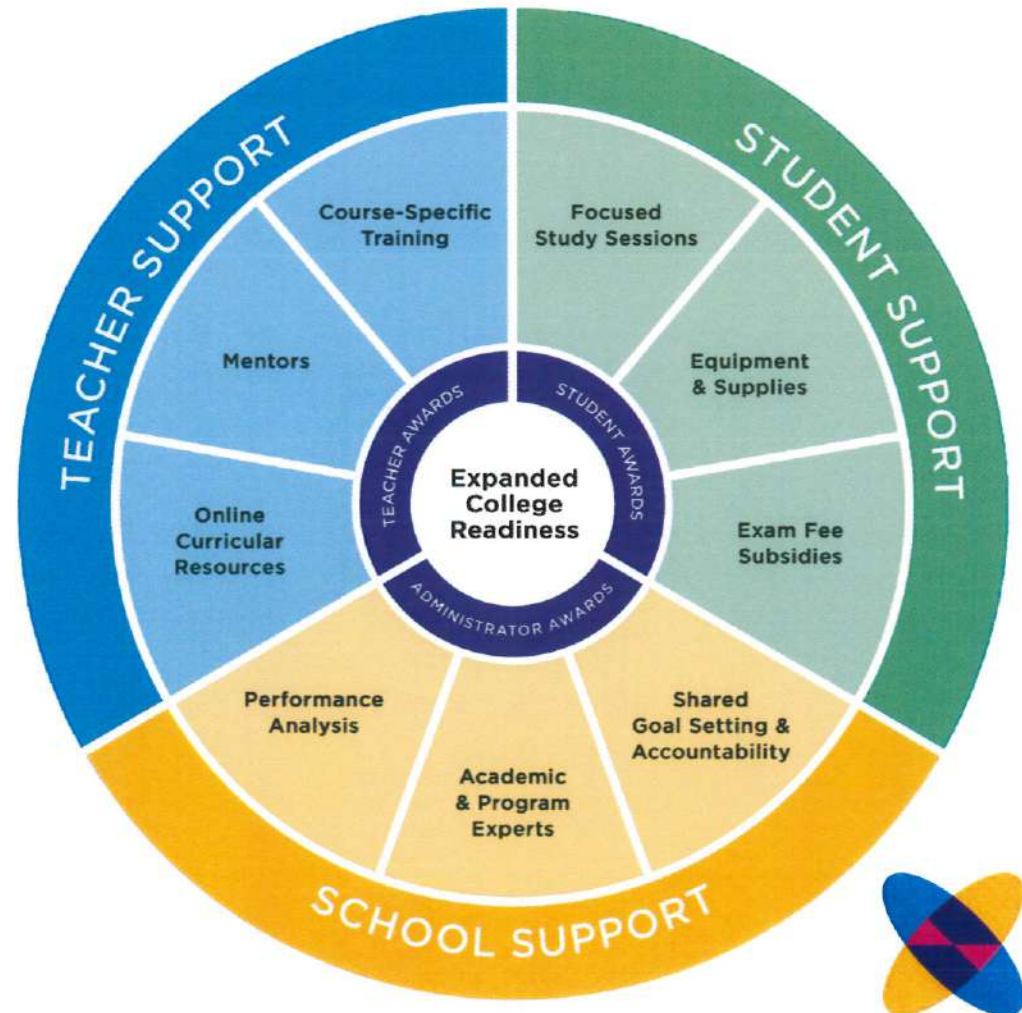
- **Our Approach:** Identify effective, efficient programs; create replication protocols to ensure fidelity; then take them to scale
  - **College Readiness Program**
  - **Laying the Foundation Teacher Training Program**
  - **UTeach Expansion Program**



# College Readiness Program: Elements of Success

## NMSI's College Readiness Program:

- Dramatically increases the number of students taking and earning qualifying scores on AP Math, Science, and English exams
- Expands access to traditionally underrepresented students



# Elements of Success:

## Support for Teachers

**AP Teacher Summer Institute (APSI)** - AP Teachers attend four-day training sessions prior to the first year of the program and in subsequent summers during the program years.

**Two-Day Workshops** - AP Teachers attend two-day teacher workshops during the fall to reinforce summer training.

**Mock Exam/Reading Training** - AP Teachers attend one-day teacher trainings to learn how the exam is graded in sessions led by NMSI “readers”.

**Training for non-AP teachers** - NMSI provides its Laying the Foundation Teacher Training for teachers in grades 3-12 for four days during the summer for three consecutive years to increase rigor in their classrooms to build the pipeline of students ready for AP.

[LTF Resources](#)

**Support of AP teachers** - AP Teachers receive support provided by NMSI mentors – AP teachers who have achieved excellent AP results.





# Elements of Success:

## Student Support

### **Student Study Sessions:**

The College Readiness Program includes at least three AP extracurricular study sessions per subject, which are typically held on Saturdays and are led by state and national AP experts while the students' classroom teachers observe.

### **Equipment and Supplies:**

Each school receives \$35,000 for equipment and supplies over a three-year period.

### **Examination Fee Subsidy:**

Students typically receive half the cost of the exam fee from NMSI or the school district (the College Board fee for one exam in 2015 is \$91.00).





# Elements of Success:

## Financial Support

### **Student Exam Fees**

Paid for by McGuffey School District

### **Student Awards**

\$100 for each AP exam score of 3, 4, or 5 in AP Math, Science, and/or English.

### **School Support**

\$35,000 for equipment and supplies over a three year period

*All incentives are for math, science and English only.*



# QUESTIONS?

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