



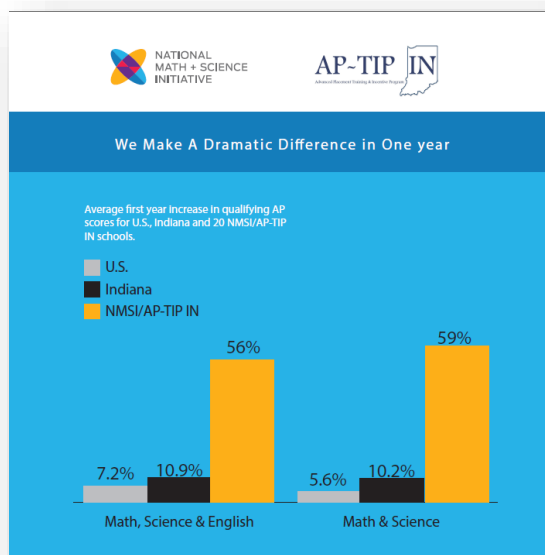
AP-TIP IN™ is elated to report **major accomplishments from the second year of the program** designed to considerably increase the number of high school students earning college credit from their success in Advanced Placement® math, science, and English courses.

Students and teachers in the following **20 public high schools** leaped ahead together for **college- and career-readiness** during the 2013-2014 school year, with the Advanced Placement Training and Incentive Program for Indiana (AP-TIP IN):

- *Ben Davis High School*
- *Crawford County High School*
- *Concord High School*
- *Elkhart Central High School*
- *Elkhart Memorial High School*
- *Gavit High School*
- *Hammond High School*
- *Jeffersonville High School*
- *Kokomo High School*
- *Lake Central High School*
- *Lawrence Central High School*
- *Lawrence North High School*
- *Mississinewa High School*
- *Perry Meridian High School*
- *Pike High School*
- *Richmond High School*
- *Southport High School*
- *Speedway High School*
- *Westfield High School*
- *Whiteland High School*

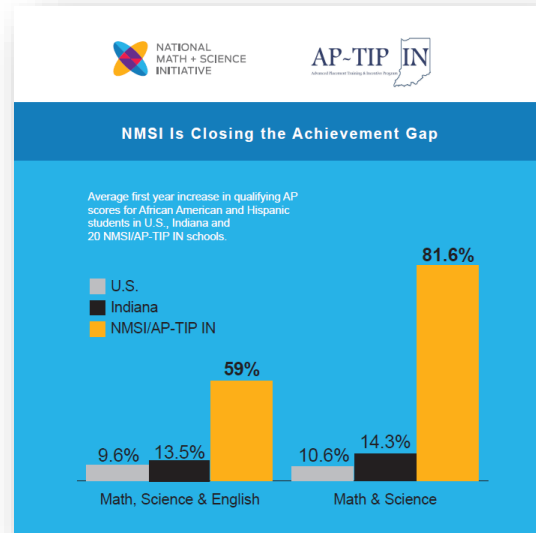
Participants demonstrated for a second year that the innovative model pioneered by the National Math and Science Initiative (NMSI) **dramatically increases preparation and performance in the AP math, science, and English (MSE) tests**. In the 2013-14 school year, nearly **2,000** students in these schools achieved a score of 3, 4, or 5 on nearly **3,000** AP MSE tests, thereby becoming eligible for college credit for those college courses. (Many students took more than one AP test.)

In fact, in their first year of participating in AP-TIP IN, participating schools' AP MSE scores **increased by an average of 56%**! This increase reflects the success of the AP-TIP IN and NMSI model of preparing both students and teachers for mastery of



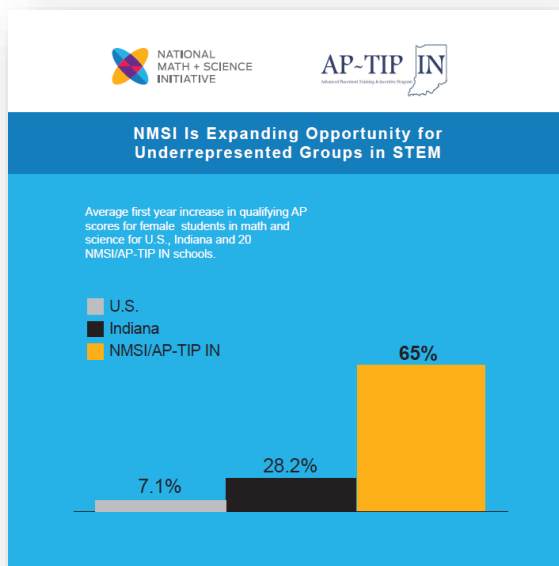
advanced subject matter, and increased access to and enrollment in, designated AP courses.

**This increase in the first year is more pronounced with minorities and women students.** On average, in their first year of participation, schools experienced an increase of **59%** in their African American and Hispanic student populations achieving college-level scores for math, science, and English AP exams. Counting only math and science, which are highlighted as STEM (science, technology, engineering, and math) disciplines prized by leading employers, this same group jumped nearly **82%** in the number scoring 3, 4, or 5.

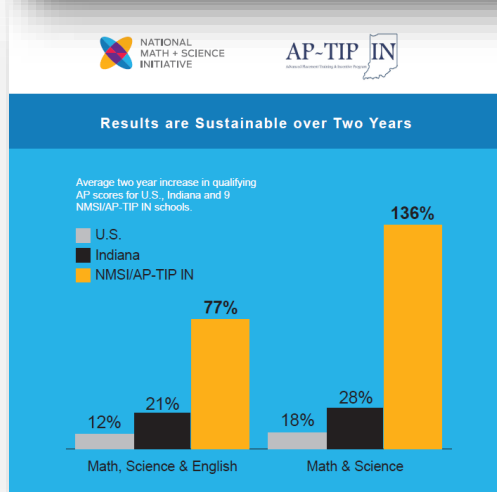


Female students made similar gains, with an increase in math and science qualifying scores of **65%**. Such strides among these key underrepresented groups prove that students, when

provided the opportunity and support, **can close the achievement gap as they become STEM-literate and geared for college success.**



The NMSI model, which has spread among several states in recent years, combines training and incentives for students and educators who want to take their high school expectations to the next level. **Through the AP-TIP IN program, which is administered for Indiana by the University of Notre Dame's Institute for Educational Initiatives, participating public schools cooperate in year-round initiatives.** These include extensive training of teachers, identification and cultivation of lead teachers, additional time-on-task for students through tutoring and exam preparation, and financial incentives for students and teachers when testing yields the qualifying scores.



After two years in the program, the nine “cohort 1” schools increased AP MSE *enrollments* by an average of **47%**, and the number of qualifying scores they achieved in the spring 2014 testing jumped **77%**. This is even more dramatic when observing the increases in math and science scores alone: **136%** for cohort 1 participants.

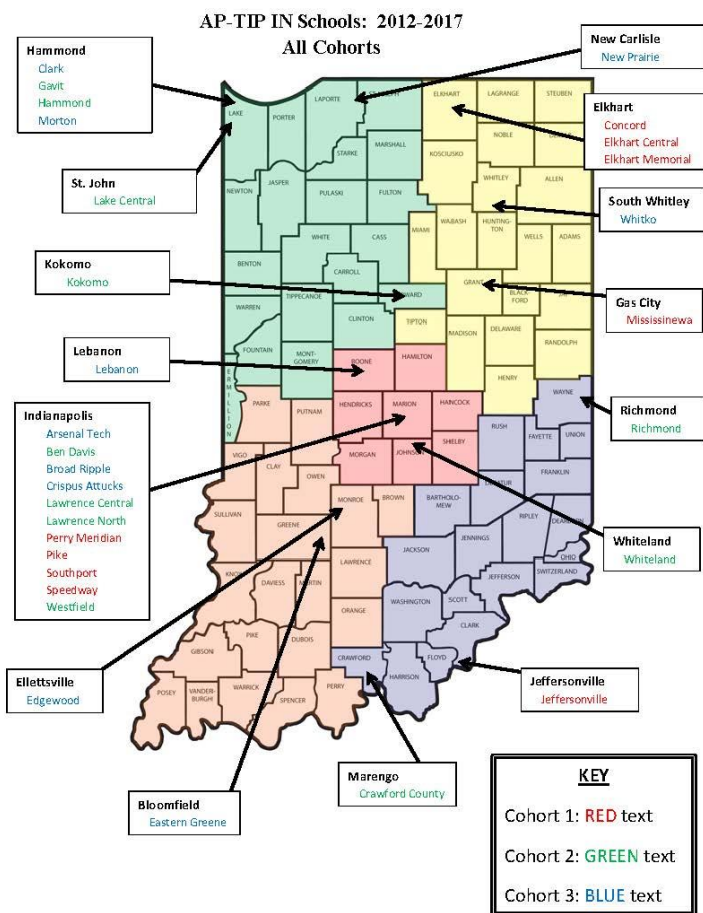
**Increasing enrollments and access to AP math, science, and English courses is a goal of this grant; and the impact of the AP-TIP IN program**

**opens doors to college success among underrepresented groups.**

Progress continues toward the school-specific goals that cohort 1 and 2 participants set for themselves. By the end of the program's third year, 2014-2015, the nine cohort 1 schools committed to attain more than 1,600 AP math, science and English qualifying scores. Their students earned 1,200 of these scores in 2013-14 alone. The 11 schools of cohort 2 saw nearly 1,800 qualifying scores earned toward their three-year goal of 2,700 successful scores for students.

**Starting in July 2014, a third cohort of 10 additional Indiana public high schools** joined AP-TIP IN, thereby increasing the number of AP MSE enrollments from nearly **6,500** for the 2013-14 school year to approximately **9,600** MSE enrollments for the 2014-15 school year. The new participants, already working with Notre Dame's AP-TIP IN content directors under the NMSI model, are:

- Arsenal Tech High School
- Broad Ripple High School
- Clark High School
- Crispus Attucks Medical Magnet School
- Eastern Greene High School
- Edgewood High School
- Lebanon Central High
- Morton North High School
- New Prairie High School
- Whitko High School



The location of all cohort schools shown on this state map demonstrates the geographical and demographical diversity of this program.

AP-TIP IN, currently funded as a five-year program, is soliciting new schools for future cohorts. Extensions and expansions of these strategies for student success will require new funding, including the support of companies who know their

growth in Indiana depends on well-prepared employees. Additional information can be found at Notre Dame's AP-TIP IN website: <http://iei.nd.edu/aptipin>.

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*National Math and Science Initiative (NMSI)* is an innovative non-profit organization created to scale programs proven to positively impact math and science education in the U.S. Launched in March 2007, NMSI was developed in response to the call for action by the National Academies' 2005 blue ribbon panel report, *Rising Above the Gathering Storm*. According to the panel of 20 experts, improving American students' performance in math and science coursework is the most effective way to increase the United States' global competitiveness. Exxon Mobil Corporation announced its support for the initiative with a commitment of \$125 million. The Bill and Melinda Gates Foundation and the Michael & Susan Dell Foundation have also joined as funders. For more information about NMSI, please visit [www.nms.org](http://www.nms.org).

*College Board's Advanced Placement Program*\* enables students to pursue college-level studies while still in high school. Thirty-seven courses in 22 subject areas are offered. Based on their performance on rigorous AP exams, sections of which are scored by college faculty and experienced AP teachers, students can earn credit, advanced placement or both for college. More than 3600 colleges and universities around the world recognize AP for credit, placement and/or admissions decisions, including more than 90 percent of four- year colleges and universities in the United States. For more information, please visit [www.collegeboard.com](http://www.collegeboard.com).

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## Program Overview

AP-TIP IN™ is a statewide math-science initiative dedicated to helping Indiana’s students reach new heights in rigorous academic achievement. Begun in 2012, this is a five-year partnership between Advanced Placement – Training and Incentive Program (AP-TIP IN) and the National Math and Science Initiative (NMSI). Under conditions of matching over the five years, NMSI has committed \$7 million to AP-TIP IN.

### NMSI Elements of Success



The NMSI Model, comprised of interrelated elements essential for success, is premised on proven success using a philosophy of inclusiveness and high expectations for each student to successfully prepare for and participate in academically rigorous coursework, i.e., the Advanced Placement (AP) Program

Success is measured by growth of students’ participation in AP courses both in terms of enrollments (Pre-AP and AP) and of Qualifying Scores in eligible MSE courses

The eligible math, science and English (MSE) AP courses include: Calculus (AB, BC), Computer Science (A), Statistics, Biology, Chemistry, Environmental Science, Physics (B,C: Electricity and Magnetism, C: Mechanics), English Language and English Literature.

The components of the NMSI Model that AP-TIP IN is replicating are designed to be implemented in a coordinated complementary manner. Described briefly below are these interrelated components.

#### For Students:

- AP Courses in MSE* ▶ Rigorous AP college-level courses in math, science and English.
- Open Enrollments:* ▶ A culture of inclusiveness and preparation for more students to enroll in AP classes.
- Student Time-on-Task:* ▶ Tutoring, exam prep sessions, and other support made readily available to students.
- Exam Fees:* ▶ Supplements to help cover AP exam fees not provided from other sources.
- Incentives:* ▶ Students receive \$100 per Qualifying Score (3, 4, or 5) on AP exams in eligible MSE courses.
- Counseling/Recruiting:* ▶ Supportive information to help in student/family decisions to prepare for and enroll in AP.

#### For Teachers/Administrators/Schools:

- Lead Teachers/Mentors:* ▶ Master AP teachers help guide vertical teams in their relevant subject matter on a path to academic achievement for AP students, conduct exam prep session for students, and more.
  - Teacher Training:* ▶ For AP & Pre-AP teachers, 4-day summer institutes & other training during the academic year. Collaborations among high school and middle school teachers to coordinate preparation of students for success in AP classes.
- AP-TIP IN  
Advanced Placement Training & Incentive Program  
<http://iei.nd.edu/aptipin>
- AP teachers receive a \$500 stipend to support additional responsibilities in extra training and teaching AP and \$100 per qualifying score achieved by students in their eligible AP classes. Achieving pre-set targets for Qualifying Scores (by class and by school) triggers bonus and the designated school administrator. <http://www.nmsi.org>
- ▶ Schools can receive up to \$10,000 for equipment in eligible AP classes.

AP-TIP IN is part of the University of Notre Dame Institute for Educational Initiatives and is affiliated with the National Math and Science Initiative

