



Lewis Cass Technical High School

"An International Baccalaureate World School"

Profile 2014-15

Lisa Phillips, Principal



Our Mission: Cass Technical High School will provide a broad range of academic, social and cultural experiences in a clean, safe and healthy environment that will prepare our students to be successful in college and become leaders in society.

Our Vision: Cass Technical High School will develop high-achieving students who will transition to the rigor and expectations of college, the world of work, and life beyond high school.

Our Goal: All students will meet or exceed proficiency targets in all content areas and at all grade levels.

Total Enrollment: 2,328
Grades: 9 through 12
Faculty and Staff: 119
Size of Senior Class: 428

Ethnic Composition:
87% African American 13% Others
Over 60 Student Clubs and Organizations

Notable Accomplishments:

- Michigan Department of Education (MDE) Reward School-Ranked in the top 5% of all high schools in the state of Michigan
- International Baccalaureate World School
- Two-Time Recipient of National Excellence in Education Awards
- Wayne County Community College Dual Enrollment Program (Largest in DPS School)
- CIA Undergraduate School Program
- Largest Advanced Placement Course Offerings; Only Quantitative & Qualitative Analysis Courses in DPS
- "Best High Schools" Bronze Medal by US News and World Report
- University of Michigan Collaboration Doctors of Tomorrow Program
- STEM Genius and Underwater Robotics Program
- Five-Time Recipient of the Best High School by the Ford Neighborhood Awards
- Marching Band Inauguration Invitation to the Inaugural Activities, Chick-fil-A Peach Bowl in Atlanta, GA and most recently the Ground Breaking ceremonies for the New Stadium by Ilitch Holdings.
- New State-of-the Art Radio/TV Lab and Athletic Work-Out Room
- More than 600 incoming freshman participated in our five-week Summer Bridge Program
- Palazzo Strozzi Award Winners toured Paris, France & Florence and Venice, Italy
- Blue Lake Fine Arts Camp sponsored a musical tour for Cass Tech students to Denmark & Germany this summer

Academic & Curriculum Awards:

- 23 Gates Millennium Scholars in the last 7 Years
- 8 Merit Finalists in last 6 Years
- 13 Achievement Finalists in last 6 Years
- 12 Consecutive Years of National Art Awards
- 15 Consecutive Years of Grand Awards at Metro Science & Engineering Fair
- First place winner for the Chrysler Automotive Design Contest for 2012-2013
- 2-time Recipient of Michigan's Governors Cup
- Two-time U.S. Exemplary (Blue Ribbon) School
- Twice voted America's Best High Schools by Redbook Magazine
- Academic Games Individual National Winner for Equations/State Champions
- Academic Games Coach of the Year Winner
- 2013 National Public Debate Championship
- Chosen as a Grammy Signature School
- 1st Annual STEMGenius & SeaPerch Michigan Regional Underwater Robotics Tournament High School Champion
- Featured in U of M's Stem Initiative
- Featured on CNN "Backyard Brains" show
- 2014 Palazzo Strozzi High School Renaissance Award for Teacher Ms. Willis & Students Jade Rhodes, Edith Conn

Test Scores:

- 2011 – 2012:** Made Adequate Yearly Progress
- ACT College Readiness Scores Increased 6%
- MME Scores increased in Math, Science, Reading and Writing
- Ranked in the Top 10% of Schools by the Michigan Department of Education
- 2012-2013:** MEAP Scores increased by 3%
- Ranked in the Top 5% of Schools by the Michigan Department of Education
- 2013-2014:** MME Scores increased in Math, Science and Social Studies



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New Partnerships Accomplishments (2011 – 2014)

- Alpha Phi Alpha Sigma Delta Lambda Male Mentoring Program
- Chrysler Automotive Design Program
- CIA Program
- DTE Energy Foundation
- DMC Project Genesis
- Host of the VEX Robotics Regional Competition for Metro Detroit
- Grand Circus Co. – Technology Partnership with Cass Tech Students designing applications on cell phones
- Ilitch Holdings Inc. (incl. Little Caesar's/Olympia Entertainment/Red Wings)
- Michigan Technological University Urban Forestry
- NASCAR/U.S. Army's 1080 Student Racing Challenge
- Palazzo Strozzi Foundation USA
- Pretty Brown Girls
- Quicken Loans Partnership – Third 90 Environmental Science Program
- Real Life 101
- Slows-to-Go BBQ Partnership with Girl's Swim Team
- Specs Howard Multi-Media Program
- STEMGenius and Sea Perch Program for Underwater Robotics
- Teen HYPE Youth Development Program
- University of Michigan
 - Doctors of Tomorrow Program
 - Michigan Engineering Zone (MEZ)
 - VEX Robotics Program
 - Victor's Day
- Wayne State University
 - Urban Scholars
 - Detroit Health Youth Initiative Program
- Winning Futures
- Women of Tomorrow – Marla Drutz
- UAW – Ford Partnerships
- Y.E.S. – Young Educator's Society

Athletic Accomplishments

- Boys Golf City Championship 2013
- 17 Consecutive Girls Tennis City Championships
- 5 Consecutive Years of Softball District Championships
- 16 Consecutive Girls Volleyball District Championships
- 14 Consecutive Years Girls Swim City Championships
- Varsity Football 2011-2012 and 2012-2013 State Champions

Curriculum Pathways & Graduation Requirements

Seven Schools of Choice in One Location

Arts & Communications
Business Management & Marketing
Engineering & Manufacturing
Health Sciences
Human Services
Natural Resources & Agricultural
Science
Science and Arts— Pathway Plus

Languages Other Than English

French Chinese Japanese
 Spanish

Advanced Placement & Honors Classes

Art History
Studio Art
English Literature
English Composition
Biology Chemistry Physics
Environmental Science
American History Government
Algebra Geometry Calculus

Science Programs

DAPCEP
Forensic Science
Microbiology
Physiology & Anatomy
Qualitative Analysis
Organic Chemistry
Quantitative Analysis

Graduation Requirements

Graduation Requirements are decided by each curriculum; however, each requires a minimum of 230 hours or 23 units which include:

4 units of English
3 units of Social Studies
2 units of Foreign Language
1/2 unit of Personal Health
1/2 unit of Physical Education
1/2 unit of Computer Applications
6 units of Curriculum Classes
4 units of Mathematics
3 units of Science
1 unit Elective
1 unit of Outside Classroom Learning Experience
(OCLEX)

Our Recommendations and Test Results

As a Professional Learning Community to insure continuous improvement we conduct on-going data analysis to determine the areas in which additional assistance is needed. Our recommendation is that parents take a major participatory role in monitoring the scholastic performance of their sons/daughters. Students should take advantage of the opportunities available for academic assistance.

- Michigan Competitive Scholarship Awardees: 96
- Average ACT (2012-2013) 19.4
- Attendance Rate: 97%
- College Bound: 97%
- Horatio Alger National Scholar
- Scholarship Earnings for (2013-2014)
Senior Class \$45,352,596.00
- Graduation Rate: 98%