



GEORGE WASHINGTON CARVER
Engineering and Science
HIGH SCHOOL • MIDDLE SCHOOL

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SCHOOL PROFILE
2019 - 2020

Principal:

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SCHOOL AND COMMUNITY

George Washington Carver High School of Engineering and Science (Carver E&S) is a magnet school, grades 7-12, striving to attract academically talented, college-bound students from diverse backgrounds. Carver E&S is a part of The School District of Philadelphia. We are committed to providing a rigorous curriculum with focus in STEM areas enriched by related extra-curricular opportunities.

Carver E&S is consistently ranked as a top school in Philadelphia based on city and state rankings. We are annually recognized by the US News and World Report as a "Top High School."

Located in the backyard of Temple University, our campus features two Engineering labs, 3 computer science labs, including equipment for a comprehensive Digital Editing program, and a dynamic library space. Many students describe our school as a "happy" place with a positive and challenging learning community.

STUDENT BODY

We receive over 2,000 applications per year for 200 9th grade seats and 60 7th grade seats. Our admissions criteria requires: (1) A/Bs in all subjects; (2) At least 80% on a standardized test; (3) Minimal absences; (4) One-page essay about why you wish to attend Carver E&S.

Our student body of 950 students spans the city of Philadelphia, representing 45 zip codes. Our school was founded nearly 40 years ago with the explicit mission of preparing people under-represented in STEM fields, and we are proud to continue that today.

Our demographics are comprised of:

- 65% African American
- 13% Asian
- 10% Latino
- 7% Caucasian
- 5% Other
- 52% Male; 48% Female
- 68% Low Income
- Annual attendance rate is 96%.
- Class of 2019 had a 100% college acceptance rate with 82% choosing to matriculate to college.
- 4-year graduation rate is 96%.
- SAT Scores (Class of 2019): Overall 1085, ERW 548, Math 538
- Keystone Scores -% passing (Class of 2020): Literature 91%, Algebra 1 85%, Biology 92%

ACADEMIC PROGRAM

Carver E&S offers a rigorous curriculum with particular emphasis on the sciences, technology, engineering, and mathematics. Our faculty of dedicated professionals includes 75% with more than 10 years experience and 89% with advanced degrees.

Graduation requirements: 4 credits English; 4 credits Social Studies; 7 combined credits of Math and Science; 2 credits of foreign language; 2 credits of Arts & Humanities; 1.5 credits of PE & Health; at least 2 elective credits. Guidelines of School District of Philadelphia.

STEM Pathways:

- **Engineering:**
Introduction to Engineering Design, Principles of Engineering; Civil Engineering & Architecture; Digital Electronics; Networking and Security
- **Computer Science:** Computer Science 1 (mandatory for all 8th & 9th grade students); Java Programming; Digital Editing; Game Design; AP Computer Science A; AP Computer Science Principles
- **Bio-Medical:** Anatomy Honors; Bio-Technology; AP Biology

Course Selection: Our curriculum features 11 Honors course and 16 AP Courses. Students request higher level courses and are approved by faculty based on past performance and, in some cases, taking a prerequisite course. Qualified students are never turned away from an honors or AP course.

AP Course Offerings:

In 2019, we had 230 students enrolled in AP classes

- Science: Biology, Chemistry, Environmental Science, Physics A
- Math: Calculus AB, Calculus BC, Statistics
- English: English Literature, Seminar, Research
- History: US Government & Politics, US History, World History, Psychology, Microeconomics
- Computer Science: Computer Science A, Computer Science Principles

Dual Enrollment agreements with Community College of Philadelphia, University of Pennsylvania, University of the Sciences and Temple University

COLLEGE ACCEPTANCE

One hundred percent of our seniors apply to, and are accepted at a college or university. A recent study by the National Clearinghouse indicates that a majority of E&S graduates achieve a college degree within six years.

Recent College Acceptances

Arcadia University
Bates College
* Bloomsburg University
Carnegie Mellon University
* Columbia University
* Cornell University
Dickinson College
* Drexel University
* Duke University
Georgia Institute of Tech
Gettysburg College
* Hampton University
* Haverford College
* Howard University
* LaSalle University
Lehigh University
* John Hopkins University

* Currently Attending

* Morehouse College
* New York University
Ohio State University
* Pennsylvania State University
* Princeton University
Rensselaer Institute of Tech
* Rochester Institute of Tech
Rose-Holman Institute
* Rowen University
* Rutgers University
* Shippensburg University
* Spelman College
* Stanford University
* St. Joseph's University
St. John's University
* Susquehanna University

Swarthmore College
* Temple University
* University of California - Santa Barbara
* University of Delaware
* University of Hawaii
* University of Maryland
* University of Pennsylvania
* University of Pittsburgh
* University of the Sciences
* Ursinus College
* Villanova University
* Virginia State University
Virginia Commonwealth
* Wellesley College
* West Chester University
* Widener University

CULTURE OF EXCELLENCE

College & Career Readiness

- * **University partnerships:** University of Pennsylvania, Temple University, Community College of Philadelphia, Lehigh University, University of the Sciences and Drexel University
- * **Partners & Internships:** NavSEA, Army Corps of Engineers, School District of Philadelphia IT Department, Temple University - Colleges of Science & Technology and Engineering, St. Christopher's Hospital, Steppingstone Scholars, Squashsmarts, Big Brothers / Big Sisters, Philadelphia Futures
- * **Annual College Day:** 75 colleges and universities at E&S and 20 University Visits

Scholarships

- * Gates Millennium
- * QuestBridge
- * John McKee
- * Ron Brown
- * PA Board of Governor's
- * Mayor's - University of Pennsylvania
- * Liberty - Drexel University
- * Chairman's - Temple University
- * Presidential - Villanova University
- * Founder's - LaSalle
- * Presidential - Widener University

Award Winning Teams (2016-Present)

- * Sea Perch in Baton Rouge, LA
- * Quiz Bowl in Atlanta, GA
- * ACE Design Competition in Washington DC
- * FIRST Robotics, State Qualifier
- * Marshall-Brennan Moot Court Competition, Boston MA
- * Regional Technology Student Association, CAD Design & Robotics, Seven Springs, PA
- * Science Fair Regional Award Winners
- * Cheerleading Five-time State Qualifiers
- * Girls Basketball Division Champions
- * Philadelphia School Journalism Award

"Education is the key to unlock the golden door of freedom."

George Washington Carver

