



George Washington Carver Academy



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Serving grades 6, 7, and 8

1505 Logan Avenue
Waterloo, Iowa 50703

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A STEM School

Science, Technology, Engineering, and Math (STEM) will receive special attention at Carver. As a STEM school, Carver will provide a wide variety of courses in these areas of study:

- o Applied Mathematics—banking, accounting, measurement, investing, grocery pricing, and more
- o Applied Technology—real world uses for today’s constantly changing technology, including the technical aspects of jobs at John Deere
- o Architectural Engineering—structure and design, including bridge building, weight distribution, and environmental impact of structures
- o Mechanical Engineering—simple machines, gears, levers, and pulleys, including everything from auto design and repair to alternative power/fuel sources
- o Robotics—design, set up, and function of programmable tools
- o Applied Science—today’s high tech workplace, including biotech, invention, and forensics
- o Fundamentals of Engineering—basic understanding of engineering and the scientific process
- o Botany—fun and creative horticultural and environmental science: get your hands dirty while learning how soil and water are important to all living things

- Specialized learning environments
- High levels of student engagement in rigorous academic content
- Focus on meeting the learning needs of students
- Early exposure to professional and technical careers, especially in the sciences
- Emphasis on technology in the classroom and lab
- Connections with community business and higher education

A Branch...

The Dick Young Greenhouse Provides A Unique Learning Lab

The greenhouse at Carver Academy, a “learning lab” for students by day and a community-use facility by night, will:

- provide a working laboratory for botany and plant science classes
- enhance learning across the curriculum (i.e., family consumer science, math, and reading), as horticulture is integrated into the middle school curriculum
- be a resource for other schools in the district and the rest of the county
- serve as a center for school campus beautification projects
- facilitate youth entrepreneurship programs based in horticulture science
- inspire career exploration opportunities, including minority student recruitment into agricultural careers
- develop scholarship, internship, and job opportunities for student participants
- serve as a base for community gardens, Master Gardener classes, and other community-focused horticulture programs
- enhance Carver Academy’s positioning as a “lighted schoolhouse” and an active community partner in the City of Waterloo’s Highway 63 redevelopment corridor.



A lab/classroom will be adjacent to the greenhouse, so that the greenhouse can be used as a first-class teaching facility.

The Young Family Foundation donated \$200,000 for construction of the greenhouse in memory of Dick Young, a Waterloo businessman and philanthropist who died in 1996 at age 81, while Black Hawk County Extension, with ISU alumni, have committed to fundraising for equipment and to providing a full-time staff person to work with students, staff, and the community.