

Wake STEM Early College High School

School Profile



2205 Walnut St, Cary, NC 27518

Phone: 919-694-8130 Fax: 919-589-6209

CEEB Code: 343219 Website: <https://www.wcpss.net/stemec>



Administrative Staff

Dr. Drew Ware, Principal

lware@wcpss.net

Sophia Overdiep, AP Instruction

soverdiep@wcpss.net

Ryan Haymore, Counselor and Dean of Students

rhaymore@wcpss.net

Wake STEM ECHS By the Numbers

- Total Enrollment: 294
- First Generation College Students: 179
- Students Served: Grades 9-13
- Total Faculty: 26
- Student to Teacher Ratio: 18:1
- Average Class Size: 22
- Accreditations: Southern Association of Colleges and Schools Council on Accreditation and School Improvement, North Carolina Cooperative Innovative High School (CIHS)

Background

The Wake STEM Early College High School is a small public school of choice established in 2011. Our school is the result of a partnership between the Wake County Public School System and North Carolina State University. STEM is an acronym for Science, Technology, Engineering and Math. STEM is the theme of our school's program in addition to our identity as an early college.

Mission

The mission of the Wake STEM Early College High School is to provide a highly supportive and academically challenging learning environment for students underserved in a traditional high school setting and underrepresented in the STEM disciplines, including first generation college going students, who will graduate prepared to compete globally in careers related to science, technology, engineering, and mathematics.

Curriculum

Students take the courses required for the North Carolina Future Ready Core, High School Diploma. These are the same basic requirements as at all NC public high schools. Students must earn 22 credits in specified courses to graduate and earn a high school diploma. Themes of science, technology, engineering, and math are carried throughout the curriculum. Arts courses are not offered in our program because they are outside the scope of our theme and resources. Our school was purposefully designed as a five-year program allowing students to take advantage of free college courses as long as possible. Students earn many of the credits required for a high school diploma in their first two years. They continue to take at least one high school course every year that they are in the program up to five years. Students may choose to graduate after four years if they have completed all high school graduation requirements.

North Carolina State University Courses and Credits

Students take college courses starting in the third year of the program. In the fourth and/or fifth years, students are enrolled primarily in college level courses. Starting with students who entered the 9th grade in 2019-20 and continuing in following classes, college courses will factor into high school grade point average. **Please note that the original North Carolina State University Transcript is the authoritative source for college grade information.**

Graduation Requirements

Students are required to earn a minimum of 22 credits including the following:

- 4 Credits of English
- 4 Credits of Math
- 4 Credits of Social Studies
- 3 Credits of Science
- 6 Credits Electives
- 1 Credit of Health

ACT and SAT Scores

AVERAGE SCORES	2022-23	2022-23	2023-24	2023-24
	ACT	SAT	ACT	SAT
Composite	27.6	1304	25.9	1344
English/SAT W.	26.1	643	24.1	652
Mathematics	28.9	661	27.6	692
Reading	27.5		26.1	
Science	27.2		25.1	

2024-25 Course Offerings

HN English 1	HN Earth Environmental Science
HN English 2	HN Physics
-AP English Language	-AP Biology
AP English Literature	Engineering Design 1
HN Math 1	Engineering Design 2
HN Math 2	Engineering Design 3
HN Math 3	CTE Computer Science 1
HN Pre-Calculus	+AP Computer Science Principles
HN Magnet Projects in Math	+AP World History
HN Topics in Calculus	AP United States History
HN CTE Project Management 1	HN Economics and Personal Finance
HN CTE Advanced Studies	Spanish 1
HN CTE Internship STEM	Spanish 2
Healthful Living 1 (STEM)	HN Spanish 3

Students may take various additional elective courses through North Carolina Virtual Public School.

HN Denotes Honors Level Coursework

+ These AP courses were only added in 22-23 and were not available to current super senior students.

^ AP Calculus AB was only available to students starting high school with Math 1, 2 and 3, credit earned in middle school.

- These AP Courses were added in 23-24 and was not available to current Super Seniors (Grade 13).

*These AP courses were added in 23-24 and were not available to current Seniors or Super Seniors.

Grading Scale and Honors

	Quality Points		
	AP/College	Honors	Academic
A = 90-100	5	4.5	4
B = 80-89	4	3.5	3
C = 70-79	3	2.5	2
D = 60-69	2	1.5	1
F = 59-0	0	0	0

Class Rank is determined by weighted cumulative grade-point average and is displayed on transcripts. Both the weighted and unweighted cumulative grade-point averages are included on transcripts.

Students with a 3.75 – 3.99 weighted grade-point average shall receive the distinction of **cum laude**.

Students with a 4.0 – 4.249 weighted grade-point average shall receive the distinction of **magna cum laude**.

Students with a 4.25 or higher weighted grade point average shall receive the distinction of **summa cum laude**.

Awards and Recognitions

- AP Computer Science Principles Female Diversity Award
- US News and World Report, Ranked #6 in North Carolina, #2 in Raleigh Metro Area, #1 in Wake County Schools, #261 Nationally in Best High School's Ranking for 2024
- 100% of Seniors earned a WorkKeys National Career Readiness Credential in 2022-23
- National Magnet Schools of America, School of Distinction, 2015-16, 2019-20, 2021-22, 2022-23, 2024-25
- National Magnet Schools of America, School of Excellence, 2016-17, 2017-18, 2018-19
- Secondary Magnet School of Merit Award of Excellence (National Top Secondary Magnet School), Magnet Schools of America, 2019
- North Carolina Model STEM School of Distinction, 2016 and 2024