

Wake STEM Early College High School

School Profile



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



Administrative Staff

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Wake STEM ECHS By the Numbers

- Total Enrollment: 264
- First Generation College Students: 129
- Students Served: Grades 9-13
- Total Faculty: 20
- Student to Teacher Ratio: 18:1
- Average Class Size: 20
- 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. **College courses will show on the high school transcript but are excluded from the high school GPA for students starting 9th grade prior to 2019-20 (12th and 13th grades).** 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	2020-21	2020-21	2021-22	2021-22
	ACT	SAT	ACT	SAT
Composite	25.8	1299	27.63	1338
English/SAT W.	24.7	634	26.4	658
Mathematics	25.5	655	27.9	680
Reading	26.3		28.4	
Science	26.5		27.1	

2022-23 Course Offerings

HN English 1	HN Physics
HN English 2	HN Biology
HN English 3	+AP Biology
HN English 4	Engineering Design 1
-AP English Lit	Engineering Design 3
HN Math 1	Computer Science 1
HN Math 2	Python Programming 1
HN Math 3	Python Programming 2
HN Pre-Calculus	+AP Computer Science Principles
HN Magnet Projects in Math	HN World History
HN Integrated Math 4	HN American History 1
HN Topics in Calculus	AP United States History
^AP Calculus AB	HN Civics and Economics
HN Earth Environmental Science	Spanish 1
HN Chemistry	Spanish 2

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 senior students.

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

- AP English Lit was added in 22-23 and was not available to current Super Seniors (Grade 13).

Grading Scale and Honors

Quality Points

	AP	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

- US News and World Report, Ranked #6 in North Carolina and #257 Nationally in Best High School's Ranking for 2021-22.
- US News and World Report, Bronze Medal, 2016
- National Magnet Schools of America, School of Distinction, 2015-16, 2019-20, 2021-22
- 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
- North Carolina New Schools, School of Innovation and Excellence, 2016
- Partnership with the Friday Institute for Education and Innovation/Suzhou North America High School (China)