

High School Profile 2020-2021



A WAKE STEM SCHOOL

715 Barbour Dr., Raleigh, NC 27695

Phone: (919) 515-2255

Fax: (919) 515-2157

<http://wcpss.net/stemec>

CEEB CODE
343219

STAFF:

Dr. Drew Ware, Principal

lware@wcpss.net

Sophia Overdiep, AP Instruction

soverdiep@wcpss.net

Ryan Haymore, Counselor A-J

rhaymore@wcpss.net

Kate McGrath, Counselor K-Z

krhill@wcpss.net

SCHOOL AND COMMUNITY

The Wake STEM Early College High School is a small public school of choice; a joint project 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. The Wake STEM ECHS is located on the North Carolina State University Campus in Raleigh, North Carolina. Our location allows our students access authentic college learning experiences and exposes them to world leading research and development in the STEM fields. 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.

HIGH SCHOOL 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 the majority 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 graduate at the end of four years by choice if they have completed all high school graduation requirements.

NCSU COLLEGE COURSES AND CREDITS

Students take college courses starting in the third year of the program. In the fourth and fifth years, students take mostly college level courses.

College courses do not receive high school credit on the high school transcript.

Grades and credits for all college courses are reflected on a separate "NC State University" transcript.

FACULTY

Total Faculty: 20

Percent with Advanced Degrees: 63%

National Board Certified Staff: 5

Student-Teacher Ratio: 17:1

Average Class Size: 20

ENROLLMENT

Total Enrollment: 257

First Generation Students: 119

GRADUATION REQUIREMENTS

Future Ready Core Course of Study For Students Entering 9 th Grade in 2012-13 and After	
4 English Credits	Honors English I, II, III, IV
4 Math Credits	Honors Math I, II, III, IV (Students coming from middle school with high school Algebra I, Geometry and/or Algebra II credits would substitute those for Math I and/or II)
3 Science Credits	Honors Earth Science, Honors Biology, Honors Chemistry
4 Social Studies Credits	Honors World Geography, Honors World History, Honors Civics and Economics, and AP US History <u>or</u> Honors World History, Honors Civics and Economics, Honors American History I and AP US History
2 Credits of the same Foreign Language	Spanish I, Spanish II (Some students have completed other language courses through dual enrollment)
1 Health	Our online health course meets the NC Graduation Requirements for "Health and PE"
4+ Elective Credits	Engineering Design I, III; Computer Programming I, Honors Computer Programming II, Honors Internship, Super Senior Seminar, Seminar, Curriculum Assistance, Honors Physics
22 Credits Total	

GRADING SYSTEM

QUALITY POINTS

LETTER GRADE	STANDARD COURSES	HONORS COURSES	AP COURSES
A	4	4.5	5
B	3	3.5	4
C	2	2.5	3
D	1	1.5	2
F	0	0	0

GRADING SCALE

A = 90 – 100

B = 80 – 89

C = 70 – 79

D = 60 – 69

F = less than 60

I = incomplete

WP = withdrawal, no penalty WF = withdrawal with an F

FF = failed for violation of attendance policy

Prior to the 2015-16 school year, letter grades were calculated on a 7-point grading scale.

COVID-19 Grading Changes:

Per NC State Board of Education Policy GRAD-009, students in grades 9-11 during the 2019-20 school year were provided two options for final grades: Numeric grade, the highest grade representing learning as of March 13, 2020 or as improved through the semester as remote learning continued or PC19 or WC19. Numeric grades are factored into the GPA and class rank; PC19 and WC19 grades are not. PC19 represents a passing grade and a full credit towards graduation; WC19 represents a lack of evidence of mastery in the course and therefore the school is unable to award a full credit.

GRADE POINT AVERAGE, RANK, AND SENIOR HONORS

The weighted grade point distribution for the class of 2019 ranges from 3.15-4.43

The student transcript reports both the weighted and unweighted cumulative grade point average.

Class rank is based on the weighted cumulative grade point average.

Beginning in 2018-19, the WCPSS will designate the following senior honors in lieu of naming a Valedictorian or Salutatorian:

- 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.

DISCIPLINARY REPORTING POLICY

Wake STEM Early College High School will report to colleges and universities, when requested, any disciplinary action resulting from an Honor Code violation or suspension. This policy applies to actions occurring up to and including graduation practices.

AVERAGE SCORES	2018-19 ACT	2018-19 SAT	2019-20 ACT	2019-20 SAT
Composite	26.7	1305	28	1300
English/SAT W.	25.9	644	27.8	644
Mathematics	27.1	661	27.8	656
Reading	27.7		29.3	
Science	26.4		28.1	

AWARDS AND RECOGNITIONS

US News and World Report, Bronze Medal, 2016

National Magnet Schools of America, School of Distinction, 2015-16, 2019-20

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)