



# STEM ACADEMY

401 Henley Street, Knoxville, TN, 37902

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2018 - 2019

## Administration

Becky Ashe, Principal  
Jennifer Garrett, Assistant Principal  
Steven York, Assistant Principal

## School Counselors

Lori Morrell (students A-J)  
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Paul Sudderth (students K-Z)  
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## The School

The L&N STEM Academy was founded in 2011 as a magnet high school focused on the disciplines of science, technology, engineering, and math in the Knox County School system. Owing to an innovative public/private partnership, brokered by local government officials and governors of both parties, the L&N STEM Academy assumes its historic location in a 108-year old train station on the World's Fair Site, centrally located in downtown Knoxville to serve the surrounding community.

The school began with Freshman and Sophomore classes, expanding each year to have the first graduating class in 2013-14. The academic program is based on full-year alternating block classes, where the maximum course load is 9 simultaneous credits. Students may enroll in asynchronous online and virtual cohort classes and have an integrated curriculum and project-based instruction made possible by the 1:1 technology (MacBook Air devices) implemented throughout the academy.

The L&N STEM Academy practices open admissions aligned with district magnet transfer policies to all students from the Greater Knoxville area and 10 surrounding rural counties. Designed to serve all students, we do not consider student ability in admissions, but rely solely upon a lottery when the number of applicants exceeds the number of available spaces.

## Genius Hour

Genius Hour is a student led and designed time in which students explore activities in an attempt to feed their learning passions and drive their curiosity. Students have the opportunity to not only pursue a passion outside of the normal curriculum, but also connect with faculty and staff in their fields of interest as many of our staff are in their second career as educators.

Activities include: Maker Space, Book Club, Java Coding, Quidditch, Student Government, Photo-shop, Outdoor Club, Urban Hiking, Junior Classical League, Women in STEM, Yoga, and others.

## Matriculation (aggregate)

55% - Four Year Colleges  
34% - Two Year Colleges  
4% - Military

## General Information

### Accomplishments and Awards

- Graduation Rate of 100%
- Graduates Attending College: 89%
- U.S. News & World Report Gold, Silver, & Bronze Awards, ranked #6 school in TN, #61 magnet in nation
- "One of America's Best High Schools" Newsweek Magazine Top 500 High Schools "Beating The Odds" 2015, 2016, & 2017
- Apple Distinguished School
- TN Reward School (5 times - 2013 - 18)

Grade	Letter	Point
93-100	A	4
85-92	B	3
75-84	C	2
70-74	D	1
0-69	F	0

Class rank is reported by decile and GPA is weighted as follows; ½ quality point is added to Honors courses and 1 quality point is added to core Dual Enrollment and AP courses.

Subject	Credit Requirement
English	4
Math	4
Science	4
Social Studies	3.5
PE/Health	1.5
World Language	2
Fine Arts	1
Electives	8

Grade	Enrollment
9 <sup>th</sup>	158
10 <sup>th</sup>	155
11 <sup>th</sup>	136
12 <sup>th</sup>	140

Race	Percent
White	82
Black	6
Asian	4
Hispanic	6
Other	2

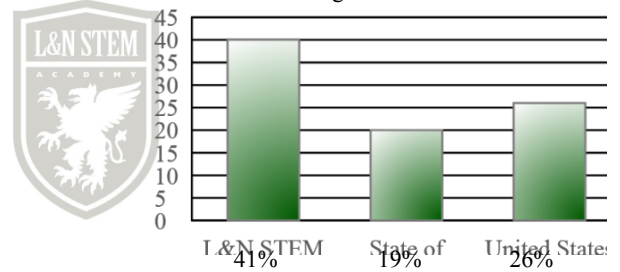
## Notables

- A pair of STEM 2019 seniors were featured by ORISE and ORNL social media for programming a supercomputer simulator for the Summit (fastest computer in the world).
- A microgravity experiment designed by a team of STEM students was chosen for a mission aboard the International Space Station in the fall of 2014.
- L&N STEM has an onsite Maker Space in Knox County where students experiment with 3D Printing, modeling, prototyping, construct custom electronics, and more.
- STEM partners with more than 215 community businesses, organizations, and institutions to provide real-world internship experiences for our students.
- The arts are integrated into the curriculum of the school, and many L & N students have received awards for their work.
- Highly competitive sports teams in Golf, Tennis, Cross Country (state finalists), Track, Swimming, and Diving (represented in the 2015-16 and 2016-17 TSSAA State Tournament in each sport)
- STEM students come from 13 different countries from around the world.

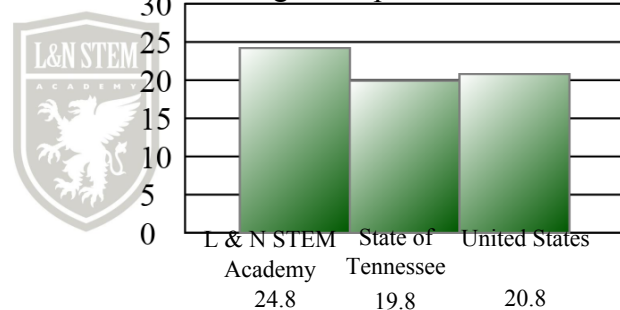
## AP Information

- Mean AP test score of 3.171
- 73.0% of all test takers scored a 3 or above
- The College Board recognized 12.0% of L & N students as AP Scholars, 5% AP Scholars with Distinction
- Administered 328 exams in 21 AP courses to 187 different students

Percent of Students Meeting ACT College Readiness Benchmarks



Average Composite ACT Score



GPA	Number	Percent of Class
4.0 and above	26	17.7%
3.50-3.99	41	27.9%
3.00-3.49	25	17.0%
2.50-2.99	21	14.3%
2.00-2.49	26	17.7%
Below 2.00	8	5.4%

