



# STEM ACADEMY

401 Henley Street, Knoxville, TN, 37902

Phone 865-329-8440 Fax 865-329-8457

2016-2017

## Administration

Becky Ashe, Principal  
 Jimm Allen, Assistant Principal  
 Tim Childers, Assistant Principal

## School Counselors

Lori Morrell (students A-J)  
 lori.morrell@knoxschools.org  
 Elishia Basner (students K-Z)  
 elishia.basner@knoxschools.org

## 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. The L&N STEM Academy was opened in response to a goal identified in Knox County Schools (KCS) Five Year Strategic Plan and as part of TN's First to the Top federal grant award.

Owing to an innovative public/private partnership, brokered by local government officials and governors of both parties, the L&N STEM Academy would assume its historic location in a 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 classes, where the maximum course load is 9 simultaneous credits. An integrated curriculum and project-based instruction is made possible by the 1:1 technology implemented throughout the academy.

The L&N STEM Academy practices open admissions aligned with district magnet transfer policies. 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, Hour of Code, Editing with Photoshop, Outdoor Club, Urban Hiking, Junior Classical League, Women in STEM, Yoga, and others.

## Matriculation

65% - Four Year Colleges  
 30% - Two Year Colleges  
 4% - Military

## General Information

### Accomplishments and Awards

- Graduation Rate of 99.4%
- Graduates Attending College: 96%
- U.S. News & World Report Gold Award "One of America's Best High Schools" (Ranked #6 in Tennessee, #61 Magnet School in the nation)
- Newsweek Magazine Top 500 High Schools "Beating The Odds" 2015 & 2016
- Apple Distinguished School (only school in Tennessee)

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>	163
10 <sup>th</sup>	155
11 <sup>th</sup>	157
12 <sup>th</sup>	147

Race	Percent
White	79
Black	13
Asian	4
Hispanic	2
Other	2

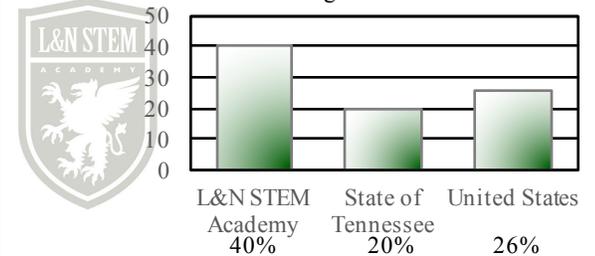
## Notables

- STEM scored in the top percentile for students scoring a three or above on AP exams in 2016. Students at the L&N also rank as the top of KCS in proficient and advanced scores in Chemistry, Biology, English I, II, and III.
- 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 the only 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, Track, Swimming, and Diving (represented in the 2015-2016 TSSAA State Tournament in each sport)
- STEM students come from 13 different countries from around the world.

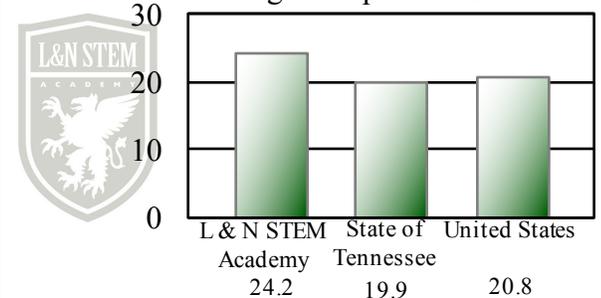
## AP Information

- Mean AP test score of 3.11
- 67.5% of all test takers scored a 3 or above
- The College Board recognized 12.5% of L & N students as AP Scholars
- 20 AP courses & 18 Honors courses offered on campus

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%

