

Academy for the Arts, Science, and Technology

School Improvement Council



Report to Parents

2019-2020

Academy for the Arts, Science & Technology
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About AAST

Mission Statement

AAST is an AdvancED STEM certified school committed to preparing its students to be college and career-ready global citizens by fostering creativity, innovation, systematic problem-solving, and critical thinking through participation in rigorous and authentically collaborative academic and career experiences.

About AAST

The AAST majors based program is a two-year program providing students hands-on training and internships in the community. Students apply to come during their last two-years of high school by choosing one of the many career majors offered at AAST. The majors available to students include: Advanced Art, Aerospace Engineering, Biomedical Science, Environmental Engineering, Computer Science, Entertainment Technology, Global Logistics and Supply Chain Management, Informatics, Innovations in STEM, Networking, Pre-Medicine, Pre-Engineering, and Web and Digital Design. By choosing a major, students apply rigorous academic content while acquiring the skills necessary for success in their chosen career paths. Students attend AAST to pursue individual interests, participate in experiences such as work-based learning, and to earn industry valued credentials necessary for college and career readiness. AAST is a nationally recognized and accredited STEM School (2016 AdvancED certification) with a 26-year history of guiding students toward achieving career dreams and realizing their possibilities. AAST integrates the Profile of a SC Graduate within its College Prep, Honors, and AP level courses in every academic area.

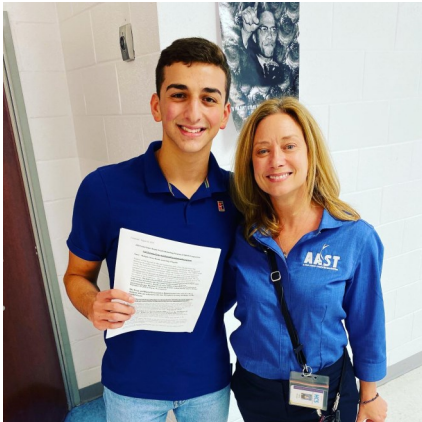
AAST's student achievement reflects a high level of rigor appropriate for students at a high quality STEM school and high performing Career and Technology Education Center. In 2019-2020 AAST served students in grades 9-12. In the 2020-2021 school year, AAST will serve students in grades 10-12 as the school phases out the 9th grade entry per the decision of the Horry County School Board. Students interested in pursuing a career path under the umbrella of Science, Technology, Engineering, and Math, apply to AAST from high schools across the district. AAST teachers work to engage students in the core academic courses while integrating STEM literacy, project based learning and inquiry-based learning as core instructional pedagogy so these high performing students will experience growth through appropriate rigor and productive struggle.

AAST's school climate reflects a collegial, collaborative, and welcoming environment, supportive of all students' efforts to reach a high level of achievement while encouraging parent engagement. As a program school it is critical for school administration to build community for the ongoing success of the school.

Maintaining regular and consistent school-home communication is vital to the success of the program. AAST's administrative team works to establish a seamless communication pipeline to include students, parents, teachers, and other school stakeholders using multiple mediums. AAST maintains a school website, produces a quarterly newsletter, and sends out parent emails as needed with time sensitive school news.

Social media is used to promote school spirit, celebrate student, teacher, and school successes, and to promote activities in each major of study and upcoming school events. AAST's students are enrolled in a Google Classroom for each grade level so that grade level or school specific news can be shared as needed very quickly.

Academic Accomplishments & Recognitions



- 99.99% of all senior students met college or career ready criteria.
- 99.87% of all senior students met college AND career criteria.
- 98% of CTE seniors were Completers in their major (121 out of 123 seniors).
- 95% of CTE seniors earned a professional credential (117 out of 123 seniors).
- 100% of Pre Med seniors received the OSHA 10 credential.
- 91% of Pre Med seniors passed the National Health Science Exam.
- 96% of students who took the Microburst Softskills Exam received the credential

(Computer Science, ET, Web and Digital).

- AAST seniors exceed the 2020 national mean composite score with an 1168 average for the SAT.
- AAST maintained 75.9% mean pass rate for AP exams. AAST offers 19 AP courses and in 2020 585 AP exams were administered.
- AAST Freshman, Jackson Penn, won the regional Poetry Out Loud competition and competed at the state competition.
- Yianni Paraschos, Computer Science Major, won Technology Champion of the Waccamaw Region.
- Yianni Paraschos was selected to participate in the SC STEM signing day.
- Web and Digital Communications won 2nd place in 2D design at the South Carolina State Fair.
- The AAST Art Program earned recognition in events around the region. AAST Students entered work in a juried competition at the South Carolina State Fair. AAST won Best In Show, 1st in 2D and 3D design. Two AAST Art major students placed in the Mural Contest at the Myrtle Beach Airport. AAST had 14 students representing the Art Major at the ArtFields virtual gallery show.
- AAST Entertainment Technology students won 1st, 2nd, and 3rd place in the Horry County Historic Video Contest.
- The Health Occupation Students of America (HOSA) chapter at AAST had 35 students compete in the virtual HOSA State Leadership Conference, where 25 students placed in the top 3 in their event and moved on to attend the International Leadership Conference.
- The AAST We the People team won the state competition and competed in the virtual national competition.



Goals for 2019-2020

Every year AAST sets school achievement goals based on data. Below you will find the goals set for the 2019-2020 school year and the progress made toward those goals.

Goals for 2019 - 2020:

1. Increase Advanced Placement (AP) test scores in AP English Language, AP Environmental Science, AP MicroEconomics, and AP US Government to exceed the 80% pass rate for the 2020 AP test administration, AP Chemistry to exceed the 70% pass rate for the 2020 AP test administration, and maintain scores in all areas meeting state and national average for the AP content area.

Evidence for Goal #1: AP Scores

Test	2019	2020	Met?
Lang	70.6 % Pass	74.4 % Pass	Increased
Environ. Sci.	75% Pass	82.9 % Pass	Increased & >80
Micro	68.1 % Pass	76.5 % Pass	Increased
Govt	72.2 % Pass	70.6 % Pass	No

AP Comparison - Percentage of students scoring a 3 or higher on AP tests compared to US, SC, and HCS

AP Course	US	SC	HCS	AAST
Human Geo	58	60	67	88
Language	60	63	72	74
US History	56	57	69	82
Psychology	70	64	75	90
Literature	57	60	75	100
Calc AB	59	64	71	72
Biology	67	70	83	86
US Govt	56	62	71	71
Env. Sci	52	55	65	83

AP Course	US	SC	HCS	AAST
Euro History	57	51	52	90
Computer Sci	72	67		67
Art 2D	90	94		100
Calc BC	82	77		83
Chemistry	56	48		53
Microeconomics	69	63		77
Capstone Research	73	70		41
Capstone Seminar	81	91		92

Goals for 2019-2020 (continued)

2. Increase the number of students scoring As and Bs on EOC exams. US History EOC scores will meet or exceed the following score breakdown 65% As, 25% Bs, and 5% Cs. Biology EOC scores will meet or exceed 80% As and 20% Bs. English EOC scores for the new English 2 test will meet or exceed 80% A and 20% B. We will not be administering the Algebra 1 EOC in the 2019 - 2020 school year.

Evidence for Goal #2: EOC Scores

Spring EOCT was not administered due to school closure for COVID-19. Below are the results of the fall EOC USH Test for the 62 students in USH in the fall semester. This does not include students enrolled in APUSH. The Biology EOCT and English 2 EOCT were not administered.

# letter grade	Percent	Letter Grade	2019 Goal
1	1.60%	F	
4	6.50%	D	
12	19.40%	C	5%
10	16.00%	B	25%
35	56.50%	A	65%
62	100.00%		

3. Increase enrollment in Spanish 3 and Spanish 4 by 10% by the 2019 - 2020 school year.

Evidence for Goal #3: Foreign Language Enrollment

- In 2018 we had 26 students enrolled in Spanish 3.
- In 2019 we had 36 students enrolled in Spanish 3.
- For the 2020 school year we have 45 students signed up for Spanish 3, an increase of 25% of last year enrollment.

Goals for 2019-2020 (continued)

4. All CATE Majors will offer a pathway towards an industry recognized certification or credential. 90% of our CATE completers for the 2019 - 2020 school year will earn an industry recognized certification or credential.

Evidence for Goal #4: CTE Certification/Credential

95% of our CTE students earned an industry certification or credential.

CTE EOY data:

- 493 Unduplicated CTE enrolled students for 2019-2020.
- 472 Work Based Learning Experiences.
- 99.99% of all senior students met college or career ready criteria.
- 99.87% of all senior students met college AND career criteria.
- 98% of CTE seniors were Completers in their major (121 out of 123 seniors).
- 95% of CTE seniors earned a professional credential (117 out of 123 seniors).

Credential	# students enrolled	# students passed	% of students passing	comments
Microburst	130	124	95%	
OSHA - 10 General	101	98	97%	
OSHA - 10 Health care	119	119	100%	
Solidworks	20	0	0	Students were not able to take the Solidworks credential test. These students could not access the high-speed computers at the schools due to COVID 19.
Total	370	341	92%	

AAST Senior SAT data:

AAST Mean SAT Composite Score	HCS Mean SAT Composite Score	SC Mean SAT Composite Score	National Mean SAT Composite Score
1168	1033	1019	1030

AAST's vision is to provide a premiere educational experience that allows students, faculty, and stakeholders to Realize Their Possibilities.