

AAES Mission & Vision

The mission of the Aerospace Academy of the Eastern Shore (AAES) is to provide at-risk and/or underrepresented populations access to the knowledge, skills and abilities needed to be successful in aerospace and adjacent industries identified as priorities by the GoVA Region 5 Economic Development Authority.

It is our vision that AAES will be an innovative, interdisciplinary school and the regional standard of excellence in preparation for the high-tech jobs in these high growth fields.

We seek to inspire students as future leaders in the aerospace industry; provide a dynamic laboratory for innovation in education; and collaborate around research to build and share knowledge of transformative practices.

Student Pathways & Instructional Model

Aerospace Academy of the Eastern Shore (Students choose 1 of 2 pathways)

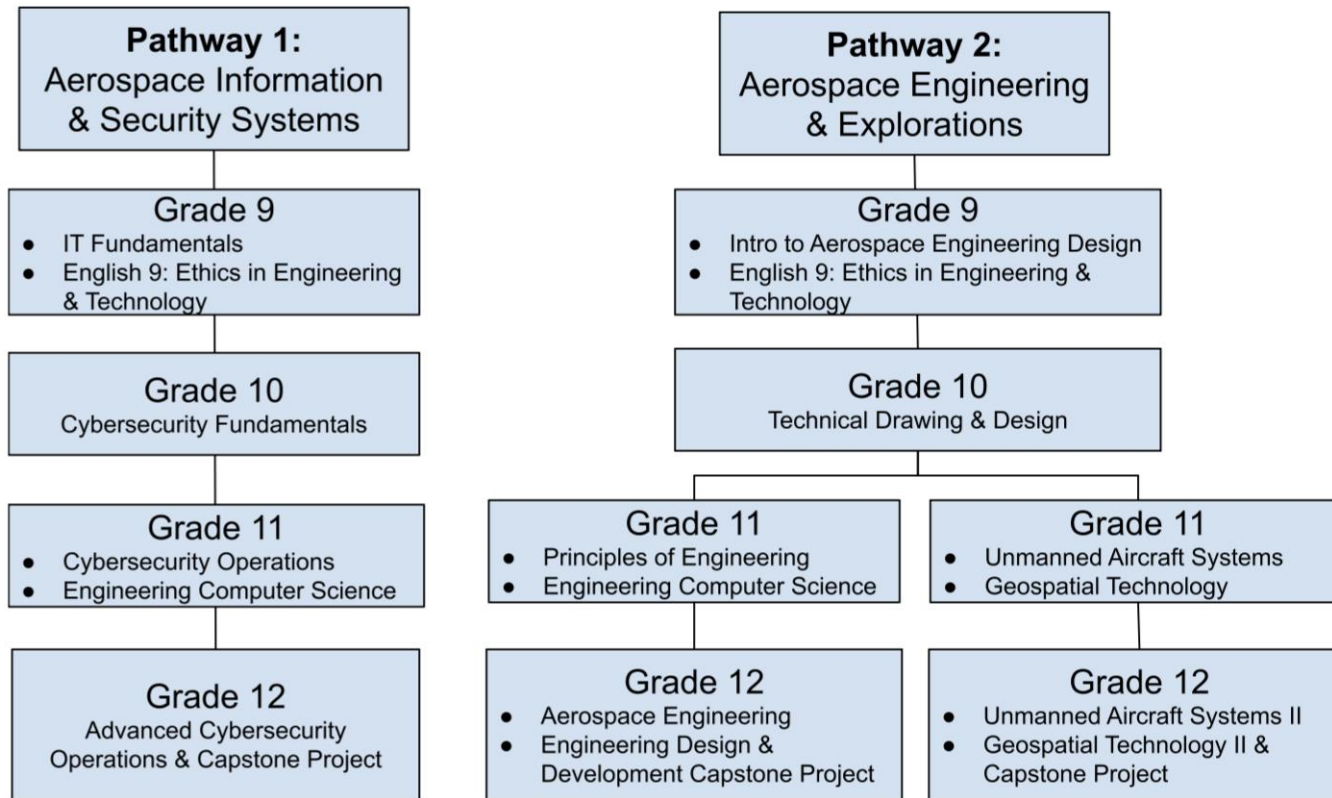
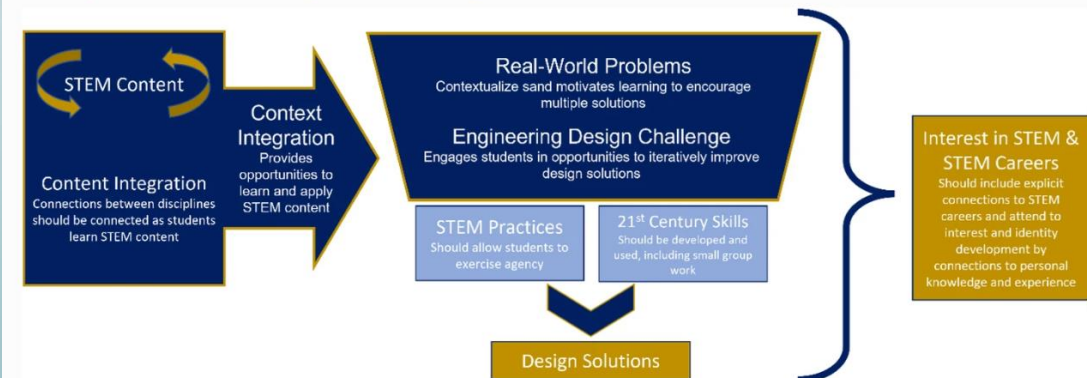


Fig. 1

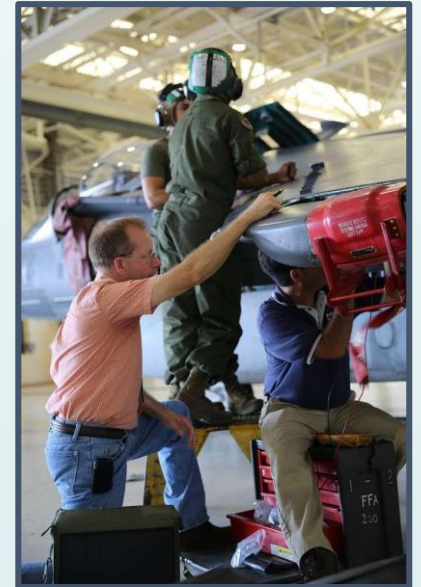
From: [Beyond the basics: a detailed conceptual framework of integrated STEM](#)



Interactions between critical characteristics of integrated STEM

Business & Industry Partners

- National Aeronautics and Space Administration (NASA) Wallops Flight Facility
- Hampton Roads Workforce Council
- Virginia Spaceport Authority
- The Nature Conservancy's (TNC) Virginia Coast Reserve
- Luminary Air Group
- Virginia Space Grant Consortium
- Hampton Roads Executive Roundtable
- Sentinel Robotic Solutions
- Virginia Space Flight Academy
- Amazon



Budget Summary & Sustainability

\$ in 000's	Yr 0	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Total
Lab School Operating Costs							
Personnel	\$ 382	\$ 480	\$ 591	\$ 607	\$ 616	\$ 622	\$ 3,298
Non-personnel Expenses	\$ 252	\$ 98	\$ 138	\$ 173	\$ 183	\$ 245	\$ 1,089
Staff development	\$ 106	\$ 43	\$ 55	\$ 55	\$ 55	\$ 40	\$ 354
Equip/Tech/Furniture	\$ 200	\$ 50	\$ 50	\$ 48	\$ 48	\$ 45	\$ 441
Admin Fee	\$ 60	\$ 60	\$ 50	\$ 50	\$ 50	\$ 10	\$ 280
Total Lab School Operating Costs	\$ 1,000	\$ 731	\$ 884	\$ 933	\$ 952	\$ 962	\$ 5,462
<i>Annual Enrollment (# of pupils)</i>		50	100	150	200	200	200
<i>Cost per pupil (\$)</i>		\$14,620	\$8,840	\$6,220	\$4,760	\$4,810	\$5,462
Estimated Lab School Funding							
Planning Grant							\$ -
Start-up	\$ 1,000						\$ 1,000
Operating		\$ 611	\$ 758	\$ 804	\$ 827		\$ 3,000
Subtotal College Partnership Lab School Fund	\$ 1,000	\$ 611	\$ 758	\$ 804	\$ 827	\$ -	\$ 4,000
Outside Funding							
Grant funding		\$ 25	\$ 50	\$ 50	\$ 75	\$ 100	\$ 300
Philanthropic funding		\$ 50	\$ 50	\$ 75	\$ 100	\$ 150	\$ 425
Business & industry partner contributions		\$ 50	\$ 150	\$ 200	\$ 250	\$ 300	\$ 950
Subtotal Other Funding	\$ -	\$ 125	\$ 250	\$ 325	\$ 425	\$ 550	\$ 1,675
Total Funding	\$ 1,000	\$ 736	\$ 1,008	\$ 1,129	\$ 1,252	\$ 550	\$ 5,675

Funding Sustainability? Yes

Braided sustainability approach leveraging our Aerospace & STEM Regional Ecosystem

- Grants
- Development
- Fundraising
- Partnership position base funding
- Institutional commitment

Outcomes

Metric 1: 90% of participants graduating from the Aerospace Academy of the Eastern Shore will earn three or more college credits through the program.

Metric 2: 96% of participants graduating from the Aerospace Academy of the Eastern Shore will have completed a work based student externship.

Metric 3: 96% of participants graduating from the Aerospace Academy of the Eastern Shore will enroll in post-secondary education, join the military, or join the workforce.

- The students graduating from the Aerospace Academy of the Eastern Shore will be college, career, and citizen-ready.
- Developing a robust teacher educator pipeline.
- Generate research that will focus on areas such as inter-organizational collaboration, effectiveness of lab schools, teacher and professional learning for lab school success, student learning and engagement, and college and career readiness.