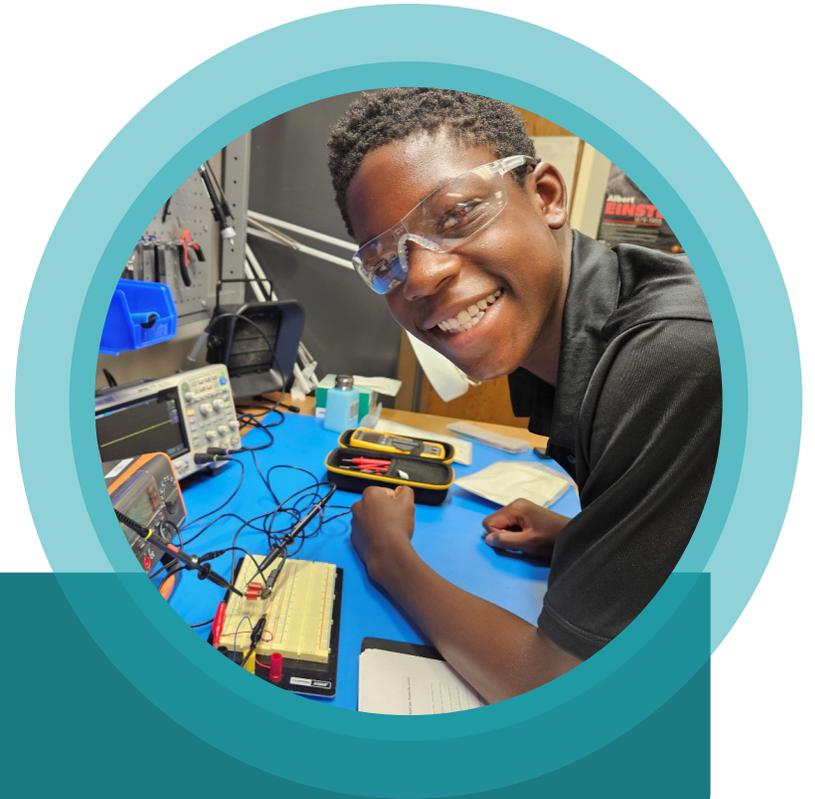# Electronics & Avionics

Two-Year Academy

Who We Are:

The Electronics & Avionics Technology Academy is a two-year option that equips students with the cutting-edge knowledge and hands-on skills needed to launch an exciting career in one of today's most in-demand technical fields while earning college credit. In this Academy, students will learn to interpret electronic theory, apply advanced testing procedures, and master the art of designing, building, troubleshooting, repairing, and overhauling complex electronic systems.

What We Do:

- Earn college credits toward an Electronics Technology certificate or Associates degree
- Complete two parts of the International Society of Certified Electronics Technicians (ISCET) exam

- Learn to solder and read schematics
- Learn valuable troubleshooting skills
- Earn OSHA certification

Located at OPS Innovation Campus | 913.780.7895 | For more information visit: https://www.olatheschools.org/careerpathways

IPS
INDIVIDUAL PLAN OF STUDY

Electronic file located in Xello - "Course Planner"
Located at OPS Innovation Campus | X: @OlathePathways
Learn more: olatheschools.org/careerpathways

Electronics & Avionics
Two-Year Academy

Graduation Requirements	9th Grade	Credits	10th Grade	Credits	11th Grade	Credits	12th Grade	Credits	POTENTIAL CAREERS
English (x4 credits)	English 9 *OR* Honors English 9	1	English 10 *OR* Honors English 10	1	English 11 *OR* AP English Language	1	English 12 *OR* College Prep English *OR* AP English Literature	1	Electrical & Electronics Engineers, Installers, and Repairers
Math (x3 credits)	Must take 1.0 math 9th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 10th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 11th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 12th gr year as recommended by facilitator & math teacher	1	Aircraft & Avionics Technicians
Science (x3 credits) (1 Life; 1 Physical; 1 Elective)	Biology *OR* Honors Biology	1	Chemistry *OR* Honors Chemistry	1	AP *OR* College Chemistry AP *OR* College Biology Physics *OR* AP/College Physics I/II AP Environmental Science	1	AP *OR* College Chemistry AP *OR* College Biology Physics *OR* AP/College Physics I/II AP Environmental Science	1	Alarm & Fire System Installation and Maintenance Medical Equipment Installation & Repair
Social Studies (x3 credits) (1 World; 1 US; 0.5 Govt; 0.5 elective)	World History *OR* Honors World History	1	Highly recommended: World Geography *OR* Honors World Geography	.5	US History *OR* AP US History	1	US Govt *OR* AP US Govt	.5	Navigation Systems Automotive Technology
Communications (0.5 credit)	Student choice - any year(s) (.5)								Railroad Signal & Track Maintainer
Financial Literacy: (0.5 credit)	Financial Literacy - can be taken any year grades 10-12 (.5)								Computer Repair
Fine/Performing Arts (1 credit)	Student choice - any year(s) (1.0)								Calibration Technologists and Technicians
Health: (0.5 credit)	Health Education - can be taken in grade 9 or 10 Optional: Health may be taken online through eAcademy if space is needed in student's schedule.	.5							Mechatronics
Language Applications: (1.0 credit)	Using the PPG - Identify courses that fulfill this requirement (1.0)								Robotics Technician
Life Studies: (0.5 credit)	Using the PPG - Identify courses that fulfill this requirement (.5)								Aerospace Engineering & Operations Technologists and Technicians
Physical Education (0.5 credit)	PE Concepts *OR* Cheer/Dance *OR* Strength & Conditioning Optional: P.E. Concepts may be taken online through eAcademy if space is needed in student's schedule. This can be scheduled during the summer - grades 10-12 only. Other online classes are available at eacademy.olatheschools.com								**Y 13 / Y 14**
STEM (1.0 credit)	*Students fulfill STEM graduation requirement through Two-Year Academy Courses* (1.0)								
Individual Focus (5.5 credits) **Two-Year Academy Coursework**					Hand & Power Tools Foundations of Electronics Aviation Fundamentals Digital Electronics	3	DC Electronics Work Experience in Electronics & Avionics I & II	3	
Total Credits: (24 total needed for graduation)	9th grade total:	7	10th grade total:	7	11th grade total:	7	12th grade total:	3+	
NOTE: Credits beyond requirements in any category will fall under individual focus.									

Graduating Class of 2028 and Beyond