

JACKSON SCHOOL DISTRICT - STEM ACADEMY COURSE PROGRESSION Class of 2030				
- Cohort classes are in Bold - All STEM courses are Honors level				
	GRADE 9	GRADE 10	GRADE 11	GRADE 12
SCIENCE	STEM Honors Biology and STEM Physical Science	AP Biology	AP Chemistry	AP Physics
MATH	Honors Geometry* and STEM Algebra 2/Trig	STEM Pre-Calculus	AP Calc AB or Honors Calculus	AP Calc AB (or BC) or AP Statistics
ENGLISH	STEM Honors English 1	STEM AP Seminar	Honors English 3 and AP Research	Honors English 4 or AP English Language or AP English Literature
HISTORY	Honors World History	Honors US History 1	AP US History or Honors US History 2	
WORLD LANGUAGE	Spanish 1 or French 1 or Italian 1 (CP or Honors level)	Spanish 2 or French 2 or Italian 2 (CP or Honors level)	<i>World Language can be taken in any of the 4 years .</i>	
PHYS ED	Phys Ed 9	Phys Ed/DE 10	Phys Ed 11	Phys Ed 12 or Option 2 encouraged
OTHER	STEM Honors Computer Science	STEM Honors Principles of Engineering	Financial Literacy or Personal Finance, 2 pathway courses	<i>3 pathway courses</i>

** Students NOT enrolled in Geometry in grade 8 will take Honors Geometry in semester 1.*

VPA or 21stCLC: 5 credits in Visual/Performing Arts and 5 credits in 21st Century Life & Careers are required for graduation

STEM PATHWAYS		
SCIENCE	TECH & ENGINEERING	MATHEMATICS
0416 AP Biology (full year)	0611 Advanced CAD	0338 Honors Calculus
0430S AP Chemistry (full year)	0362 AP Computer Science	0340 AP Calculus AB
0446 AP Environmental Science	0360 Advanced Topics in Comp Sci	0341 AP Calculus BC
0436 AP Physics	0652 Robotics	0330 Probability & Statistics
0450 Forensics	0612 Engineering Design Lab	0331 AP Statistics
0440 Anatomy & Physiology	0436 AP Physics	0362 AP Computer Science
0466 Authentic STEM Research	AP Comp Sci Principles	AP Comp Sci Principles
	0466 Authentic STEM Research	0466 Authentic STEM Research

[JSD Program of Studies](#)
[Full course descriptions can be found here](#)

NOTE:

- All STEM Academy students must take a Calculus course.
- All STEM Academy students must take Chemistry AND Physics at an AP level.
- All STEM Academy students who do not complete the AP Capstone must take at least one year of ASR.
- Band/Chorus can back up to Phys Ed on alternating days.
- Band/Chorus students may take Geometry online with Supervisor approval.
- Course and semester placements are subject to change and additional elective courses may be added.
- Students must complete graduation requirement courses during Junior and Senior year as outlined in the Program of Studies.
- Financial Literacy can be taken as an optional independent online course after sophomore year.
- All students are encouraged to participate in a STEM Internship Junior and/or Senior year.
- All STEM Academy students must meet regularly with the STEM Academy Advisor and join at least one STEM related club (Any Science or Math Club, Computer Science Club, TSA, Robotics Club, Science/Math League, etc).
- Any student unable to meet the requirements of the STEM Academy will be placed on probation and re-evaluated at the end of each semester.