

THUNDERBIRD STEM

at Wagner High School



Student's Choice of Pathway



Programming & Software
Computer Science
or
Game Programming &
App Development



Biomedical



Engineering Foundations
Robotics
or
Drone (Unmanned Vehicle)

TSTEM Opportunities

- Participate in UIL Academic, Athletic, and Fine Arts
- Industry Certifications Earned
- Dedicated Counselor and Coordinator
- College Credits Earned
- Work -Based Learning





STEM Course Schedule Sample



	9th	10th	11th	12th
Credits & Testing	English I Honors Algebra or Geometry Honors Biology or Chemistry Honors World Geography Honors AP Pathway Class	English II Honors Geometry or Algebra II -Honors Chemistry or Physics AP or DC World History AP Pathway Class	English III AP or Dual Credit Algebra II, PreCAL or DC Physics DC or AP or AP Science US History AP Pathway Class	English IV AP or Dual Credit AP Calculus or DC Math Physics II DC or AP Science US Government AP Macroeconomics AP Pathway Class
High School Credits				
College Credits DC= Dual Credit AP= Advanced Placement	DRAM 1301 Theater Appreciation UTOR Chemistry SPCH 1315 Public Speaking	DRAM 1301 Theater Appreciation UTOR Chemistry UTOR Physics SPCH 1315 Public Speaking SOC 1301 Intro to Sociology	UTOR Physics I UTOR Physics II ENGL 1301 Composition I ENGL 1302 Composition II MATH 1414 College Algebra MATH 2312 Precalculus HIST 1301/1302 History I/ II	UTOR Physics II ENGL 2301 British Literature I ENGL 2302 British Literature II MATH 2312 Precalculus GOVT 2305 Federal Government GOVT 2306 Texas Government ECON 2301 Princ.of Macroeconomics
TSIA 2.0	Attempted TSIA ELAR, Essay and Math Summerbridge attendance	TSIA 2.0 ELAR Complete	TSIA 2.0 ELAR and MATH Complete	TSIA 2.0 ELAR and MATH Complete
Pathway Courses				
Biomedical	Principles of Biomedical Science	Human Body Systems	Medical Intervention	Biomedical Innovation
Engineering Drone	Intro to Aerospace & Aviation	Robotics 1	Engineering Science	CTE Project-Based Capstone
Engineering Foundations Robotics	Manufacturing Engineering Technology 1	Robotics 1	Robotics 2	CTE Project-Based Capstone
Programming & Software Computer Science	Fundamental of CS	Computer Science 1	AP Computer Science A	Computer Science III
Programming & Software Game Programming & App Development	Fundamental of CS	Game & Programming Design	Mobile Application Development	CTE Project-Based Capstone