



Wheeler STEAM Academy Program Description

The Wheeler STEAM Academy is a program offered to Wheeler High School students who are interested in pursuing advanced opportunities in any of the STEAM Fields (science, technology, engineering, arts, and mathematics), with an emphasis on Science and Math. The program is open to any student who is interested and able to complete Honors Literature, science courses at an Honors or AP Level. STEAM Academy students will be placed together in cohort classes for their STEAM Sciences and STEAM Literature. Students will have access to an accelerated, diverse, and innovative STEAM curriculum. The successful completion of the program will require that students complete all the curriculum requirements as outlined below. Students are intentionally given as much flexibility in their schedule as possible in order to pursue their own interests, whether in or out of the STEAM fields.

What is a STEAM Academy?

A STEAM Academy is a program within a school that allows students who are interested to do in-depth study in the STEAM fields. The curriculum for a STEAM Academy generally integrates STEAM throughout the curriculum.

How is the STEAM Academy different than a traditional high school experience?

The Wheeler STEAM Academy is designed to give students the opportunity to pursue advanced opportunities in the STEAM fields while still in high school. By taking additional STEAM courses, students will be able to begin narrowing down their areas of interest for college and career before leaving high school. STEAM Academy students will be given the opportunity to double up in their science courses yearly, and the curriculum for the program will allow students to understand the interconnections between the five broad areas of STEAM – Science, Technology, Engineering, Arts, and Math.

How does the admissions process work?

Wheeler STEAM Academy will have a competitive admissions process. Criteria that will be evaluated will include the following:

- Standardized test scores, with emphasis on Math, English, Fine Arts, and Science scores
- Middle school grades, with emphasis on 7th and 8th grade
- Curriculum taken in middle school, with favor given to students taking Algebra I or higher in math and Physical Science.

Wheeler STEAM Academy Staffing

The Wheeler STEAM Academy has a STEAM Academy Coordinator, Dr. Joel Howell, who oversees all the program's needs. There is also a Wheeler STEAM Academy Leadership Team to guide the program's success.

STEAM Academy Curriculum

Subject Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Science	Honors STEAM Biology	1- Honors STEAM Chemistry 2-AP or Honors Physics	Science Elective	
Math	4 Math Credits (Including Algebra I and Geometry)			
English	9th Honors STEAM Literature	World Literature	American Literature or AP Language	British Literature or AP Literature or Dramatic Writing
Social Studies	Geography (optional)	World History	US History	Economics and Government
World Language	At least 2 World Language credits			
STEAM	Above 1-H. STEAM Biology 2-H. STEAM Literature	H. STEAM Chemistry	1-AP Computer Science Principals 2-AP Seminar	AP Research
Fine Art Elective	1 Credit			
Health/Personal Fitness	Health Personal Fitness			
STEAM Pathway	Pathway Course 1	Pathway Course 2	Pathway Course 3	Pathway Course 4 (optional)

STEAM Academy Specific Requirement

Fine Arts Pathways		
Music Band Chorus I-II Orchestra	Theatre Acting I-IV Technical Theatre I-IV Musical Theatre I-IV	Visual Arts Visual Arts Comp (Intro Class) Drawing & Painting I & II Sculpture I & II Ceramics I, II, & III Photography I, II, & III AP Art Studio, AP Art History
Career Tech Pathways		
JROTC JROTC I & II JROTC III & IV JROTC V & VI JROTC VII & VIII	Audio Video Technology and Film* AVTF I AVTF II AVTF III AVTF IV *application required	Agricultural Science & Technology Basic Ag. Science & Technology General Horticulture & Plant Sci. Nursery & Landscape* Ag Leadership* Agricultural Marketing* *3rd course for each pathway
Culinary Arts Introduction to Culinary Arts Culinary Arts I Culinary Arts II	Engineering Drafting and Design Pathway Introduction to Drafting & Design Survey of Engineering Graphics 3D Modeling & Design Technical Manufacturing & Concepts	Computer Science Pathway Intro to Digital Technology Computer Science Principles AP Computer Science A AP Computer Science Principles
Architectural Drawing and Design Pathway Introduction to Drafting & Design Architectural Drawing & Design I Architectural Drawing & Design II Structural Detailing Civil Engineering Drawing	Engineering and Technology Pathway Foundations of Eng. & Tech. Engineering Concepts Engineering Applications Research Design & Project Mgmt.	Healthcare Science Pathways Intro to Healthcare Science Essentials of Healthcare Emergency Medical Responder* Patient Care Fundamentals* Applications of Public Health* *3rd course for each pathway - EMR or CNA certification

Web and Digital Design Introduction to Digital Technology Digital Design Web Design	Marketing Marketing Principles Introduction to Sports & Entertainment Marketing Advanced Sports & Entertainment Marketing	

Wheeler STEAM Academy Class of 2027 Admissions Timeline

- Online application available: **December 2, 2022**
- Rising 9th Grade Parent Night: **February 9, 2023, 6:00-7:00**
- Online application closes: **February 18, 2023**
- Admission Decisions: **March 3, 2023**
- Deadline for students to accept admission: **March 24, 2023**