Benton High School STEM Scholar Program

Benton High School is proud to offer a newly-developed, one-of-a-kind advanced study program – *Benton High School STEM Scholar* (Science, Technology, Engineering, and Math). A recent study finds that students who complete advanced courses in high school are better prepared academically for college, more likely to specialize in challenging majors, more likely to complete a college degree in four years, more likely to exercise leadership, more likely to graduate with a double major, and twice as likely to go into advanced study (PhD programs, medicine and law)[1]. In response to these findings (as well as other similar ones) and the growing importance of math, science, and technology in today's workforce, Benton High School is offering the STEM program to interested and qualified students.

Students enrolled in the BHS STEM Scholar Program will participate in an advanced academic program that includes math, science, and technology classes all four years of their high school career. The ultimate goal of the program is to provide a comprehensive preparation for college majors in science, medicine, engineering, math, and other technical fields. In addition, the STEM program meets all LA TOPS and the new CORE4 requirements.

Upon successful completion of the STEM program, students will be recognized at graduation, receive a STEM notation on their diploma, and receive the BHS STEM Scholar program designation for recommendations and applications for colleges and scholarships. STEM Scholar graduates will be able to immediately take advantage of opportunities made available to them through post-secondary institutions and businesses. To apply, interested students must have: (1) Grades no lower than B in math and science, no lower than C in other courses for the seventh and eighth grades. (2) Teacher recommendations. Qualifying students should apply through their appropriate counselors.

STEM Curriculum

Year 1	Year 2	Year 3	Year 4
English I	English II	English III	English IV
Algebra I (H)	**Algebra II (H)**	**Advanced Math (H)**	**Pre Calculus (H)**
Biology (H)	**Chemistry (H)**	**Physics (H)**	**Calculus AP**
Geometry (H)	Civics/Free Enterprise	**STEM Elective***	**Chemistry AP**
World Geography	Foreign Language	American History	**Chemistry AP**
IBCA or BCA	Foreign Language	Social Studies Elective	Elective / Art
PE/Health	PE	Elective	Elective / BCA
Elective	Elective	Elective	Elective

Note: The order of the STEM curriculum is only a suggestion. The order may be modified as needed, as long as all STEM courses are completed.

STEM Electives	
Engineering Concentration (STEM-*E*)	**Biology Concentration (STEM-*B*)**
Engineering Applications*	Biology II*
Computer Science	Human Anatomy and Physiology
	SMART

* Required Elective for specialization

Highly recommended electives but not necessary for completion of STEM. Classes may be taken online or through BPCC.	
Statistics	Speech Communications
BCA II	Computer Programming
CAD	

[1] Willingham & Morris, University of Texas

Visit **www.bentonhighschool.com/stem** for more info.