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Spring Branch
Independent School District

HB 5
Foundation with Endorsements Graduation Plan

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Focus

"The focus of HB 5 is to make sure every student graduates prepared for college and a career by creating flexibility for students to pursue their passion."

Lieutenant Governor Dan Patrick

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Endorsements

- ★ Arts and Humanities
- ★ Business and Industry
- ★ Public Service
- ★ STEM
- ★ Multidisciplinary

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Pathways

- **Pathways are specialized courses that help a student discover their interests.**
- **Pathways help a student design a course of study that will prepare the student for future study at a university, community college, or certification program.**

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Pathways

- At SHS with the help of the Guthrie Center, we can offer 70 Pathways for a student to pursue.
- Each pathway has required courses as well as advanced course needed to complete the specifications.

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Foundation Plan with Endorsements Requirements

If we are to meet the college entry requirements, a student must have:

- **ELA – 4 credits**
- **Math – 4 credits**
  - **Algebra II must be taken**
- **Social Studies – 4 credits**
- **Science – 4 credits**

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Foundation Plan with Endorsements Requirements (cont.)

- Foreign Language – 2 credits
- Fine Art – 1 credit
- Physical Education – 1 credit
- 6 other credits (CTE, LOTE, Core, etc.)
- Total – 26 Credits

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Requirements

- Every student must declare an endorsement before entering the 9th grade and can change it no later than the beginning of the 11th grade.
- Every students must declare a pathway to specialize their elective choices.

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Pathways

- If a student chooses a CTE (Career and Technology Education) pathway, the student must take a minimum of 4 CTE credits.
- 2 of the credits must be the required CTE cluster elective
- 1 of the credits must be the required advanced CTE cluster elective.

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Pathways

- **If a student changes their pathway, counselors will work with the student on an option that generally will lead them to a combination option (multidisciplinary) within their chosen endorsement so we can graduate a student on time.**

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STEM – Science, Engineering, Technology, and Math Endorsement

- Allows students to earn credits in a specific advanced courses from a content area
- Sufficient to complete Distinguished Level under the Foundation High School Plan

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STEM – Science, Technology, Engineering, and Mathematics Endorsement

Option A: CTE	Option A: CTE	Option B: Computer Science	Option C: Math	Option D: Science
4 or more credits in CTE courses with 2 credits in same STEM Cluster including at least one advanced CTE course	4 or more credits in CTE courses with 2 credits in same STEM Cluster including at least one advanced CTE course	4 credits in Computer Science and/or Computer Programming	5 Credits in Math with 2 credits above Algebra I, Geometry, and Algebra II	5 credits in Science with 2 above Biology, Chemistry, and Physics
Engineering – Computer Science Pathway	Digital Electronics Pathway	Computer Science Pathway	Math Pathway	Science Pathway

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Option A: CTE

4 or more credits in CTE courses with 2 credits in same STEM Cluster including at least one advanced CTE course

Engineering – Computer Science Pathway

Required Courses

- Introduction to Eng. Design
- Principles of Engineering
- Computer Science Software Engineering I

Required Advanced Courses

Engineering Design Problem Solving or Internship Career Prep

Optional Electives:

Principles of Engineering II

Gateway to Technology (offered at MMS and SFMS)

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Option A: CTE

4 or more credits in CTE courses with 2 credits in same STEM Cluster including at least one advanced CTE course

Digital Electronics Pathway

Required Courses

- **Introduction to Eng. Design**
- **Principles of Engineering**
- **Digital Electronics**

Required Advanced Courses

Engineering Design Problem Solving
or Internship Career Prep

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Option B: Computer Science

4 credits in Computer Science and/or Computer Programming

Computer Science Pathway

Required Courses

- **Computer Science Software Engineering I**
- **Principles of Engineering**
- **Computer Science Software Engineering II**

Required Advanced Courses

Computer Science Specialization

or

AP Computer Science

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Option C: Math

5 credits in Math with 2 credits above Algebra I, Geometry, and Algebra II

Math Pathway

Any 2 or more Advanced Courses

- **Pre-Calculus**
- **AP Calculus AB**
- **AP Calculus BC**
- **Algebraic Reasoning**
- **AP Statistics**
- **Independent Study in Mathematics**

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Option D: Science

5 credits in Math with 2 credits above Biology I, Chemistry, and Physics

Science Pathway

Any 2 or more Advanced Courses

- **AP Biology II**
- **AP Chemistry II**
- **AP Physics I**
- **AP Physics II**
- **AP Physics C**
- **AP Environmental Science**
- **Anatomy and Physiology**
- **Medical Biology and Pathophysiology**
- **Earth and Space Science**
- **Aquatic Science**
- **Environmental Systems**
- **Forensic Science**

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Option E: STEM Combo

In addition to Algebra II, Chemistry and Physics, a coherence sequence of 3 additional credits from no more than two of the areas listed in CTE, Computer Science, Math and Science

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