HB5 Graduation Plans and Endorsements Overview

STEM

Science, Technology, Engineering, & Math

Students may earn a STEM endorsement by selecting and completing the requirements from any of these 4 options:

Note: Algebra II, Chemistry, and Physics/Principles of Technology are required for the STEM endorsement <u>reqardless</u> of the option the student selects from below.

Option 1: CTE Pathways (refer to CTE Counselors Guide)

Students earn four CTE credits by taking at least two courses in the same cluster that lead to a final course in the STEM cluster. (With at least one advanced course in the sequence)

- Engineering
- Renewable Energy
- Biomedical Science
- Cybersecurity
- Programming and Software Development

Option 2: Math

Students take Algebra I, Geometry, and Algebra II AND two of the following courses for which Algebra II is a prerequisite.

- Pre-Calculus
- Calculus
- Advanced Quantitative Reasoning
- Independent Study in Mathematics
- Discrete Mathematics for Problem Solving
- Algebraic Reasoning
- Statistics
- A comparable AP math course that does not count for another credit required for graduation
- AP Computer Science A
- IB Computer Science Higher Level
- Engineering Mathematics
- Statistics and Business Decision Making
- Mathematics for Medical Professionals
- Discrete Mathematics for Computer Science

Option 3: Science

Students take Biology, Chemistry, Physics/Principles of Technology, <u>AND</u> two of the following courses.

- Aquatic Science
- Astronomy
- Earth and Space Science
- Environmental Systems
- A comparable AP or IB science course that does not count for another credit for graduation
- Advanced Animal Science
- Advanced Plant and Soil Science
- Anatomy and Physiology
- Medical Microbiology
- Pathophysiology
 Eood Science
- Food ScienceForensic Science
- Biotechnology I
- Biotechnology II
- Principles of Technology
- Scientific Research and Design
- Engineering Design and Problem Solving
- Engineering Science

Option 4: Combination

Students take Algebra II, Chemistry, and Physics, an additional math course, an additional science course, <u>AND</u> three additional credits in the STEM endorsement.

Business & Industry

Students may earn a Business & Industry endorsement by selecting and completing a coherent sequence or series of courses selected from one of the following:

<u>Option 1:</u>

Students earn four credits by taking at least two courses in the same cluster, at least one advanced CTE course, and the final course in the sequence must be selected from one of the following areas:

- Agriculture
- Food & Natural Resources
- Architecture & Construction
- Arts
- Audio/Video
- Business Management
- Finance
- Hospitality & Tourism
- Information Technology
- Technology Applications
- Manufacturing
- Marketing
- Transportation or Distribution & Logistics
- Technology & Communications

Option 2: Communication

Students earn four English credits by selecting courses in same cluster to include three levels in one of the following areas:

- Public speaking
- Debate
- Advanced Broadcast Journalism
- Advanced Journalism: Newspaper
- Advanced Journalism: Yearbook
- Advanced Journalism: Literary Magazine

Option 3:

Recommendation:

Students earn four or more credits in a coherent sequence in CTE

Public Services

Students may earn a Public Services endorsement by selecting and completing a coherent sequence or series of courses selected from the requirements from one of the following 2 options:

Option 1:

Students earn four credits by taking at least two courses in the same career cluster in one of the following areas:

- Education and Training
- Government and Public Administration
- Health Sciences and occupations
- Law, Public Safety, Corrections. and Security
- Human Services
- Career Preparation I or II and Project-Based Research

With at least one advanced course in the sequence

student may enroll in courses under more than one endorsement before the student's junior year.

Option 2: JROTC

Student takes four JROTC credits

C Students may earn an Arts & Humanities endorsement by a selecting and completing the ies of requirements from one of the following 4 options:

Option 1: Social Studies

Arts & Humanities

Multidisciplinary Studies

Students may earn a

3 options:

Workforce

course

sequence.

Multidisciplinary Studies

from one of the following

endorsement by selecting and

completing the requirements

Option 1: Preparation for

Four advanced courses that prepare

education without remediation from

among endorsement areas that are

a student to enter the workforce

within one endorsement area or

successfully or postsecondary

not in a coherent sequence

Option 2: Four by Four

Four credits in each of the four

foundation subject areas to include

IV or a comparable AP or IB English

chemistry and/or physics and English

Option 3: Advanced Courses

Allows a student to complete four

Advanced Placement, International

selected from English, mathematics,

LOTE, or fine arts courses from within

endorsement areas not in a coherent

science, social studies, economics,

one endorsement area or among

Baccalaureate, or dual credits

Students take five Social Studies credits

Option 2: World

Languages

Students take four levels of the same foreign language.

<u>OR</u>

Students take two levels of one foreign language AND two levels of a different foreign language (two levels in each of two different foreign languages for 4 credits.)

Option 3: Fine Arts

Students take four credits in the same fine arts area:

Students take two credits in one

in each of two different fine arts

areas for 4 credits).

Literature

English IV

Level

To be college ready, we recommend students take four credits in each of the four core content areas and earn more than one endorsement. A

Humanities

Composition

Option 4: English

fine arts area AND two credits in a

different fine arts area (two credits

Students take four English credits by

Literary Genres/Creative Writing

IB Language Studies A1 or Higher

Research/Technical Writing

Communication Applications

AP English Literature and

selecting from the following:

Independent Study

OR

HB5 Graduation Plan



Foundation-Only 22 Credits*

4 credits English – ELA I, II, III, one credit in an advanced English course

3 credits Mathematics – Algebra I, Geometry, one credit in an advanced math course

3 credits Science – one credit in Biology, one credit from a laboratory- based course such as IPC, Chemistry, or Physics, and one additional credit from advanced science courses

3 credits Social Studies –US History, Government, Economics, World Geography or World History

2 credits LOTE or Computer Programming

1 credit Physical Education

1 credit Fine Arts

.5 credit Health

4.5 credits in electives (may include CTE or certification courses)

- * Students may opt to Foundation-only after completing sophomore year.
- * Consult with SPED Dept. regarding graduation plan for students being served thru SPED.

Foundation + Endorsements-26 Credits

4 credits English – ELA I, II, III, one credit in an advanced English course

4 credits Mathematics – Algebra I, Geometry, two credits in an advanced math course

4 credits Science – one credit in Biology, one credit from a laboratory- based course such as IPC, Chemistry, or Physics, and two additional credits from advanced science courses

3 credits Social Studies –US History, Government, Economics, World Geography or World History

2 credits LOTE or Computer Programming

1 credit Physical Education

1 credit Fine Arts

.5 credit Health

6.5 credits in electives (may include CTE or certification courses)

* Consult with SPED Dept. regarding graduation plan for students being served thru SPED, students can receive Foundation+ Endorsement.

Credit requirements specific to at least one

Distinguished Level of Achievement-26 Credits

4 credits English – ELA I, II, III, one credit in an advanced English course

4 credits Mathematics – Algebra I, Geometry, Algebra II, one credit in an advanced math course

4 credits Science – one credit in Biology, one credit from a laboratory- based course such as IPC, Chemistry, or Physics, and two additional credits from advanced science courses

3 credits Social Studies –US History, Government, Economics, World Geography or World History

2 credits LOTE or Computer Programming

1 credit Physical Education

1 credit Fine Arts

.5 credit Health

6.5 credits in electives (may include CTE or certification courses)

Credit requirements specific to at least one endorsement

State Assessments Required for Graduation

English I Algebra I US History

English II Biology

Performance Acknowledgements

Outstanding Performance: 12 hours Dual Credit (3.0 or higher); Associate degree while in high school; Bilingualism/Biliteracy; College Board AP Exam Score of 3 or higher; outstanding performance on PSAT, ACT-PLAN, SAT, or ACT

Certification: nationally or internationally recognized business or industry certificate or license rvsd 3/9/22