

# 9th Grade Course Selection Sheet

This form is used to help students determine the courses needed for 9th grade. Read each section carefully as they will outline all of the requirements for each subject area. Please reference the Academic Planning Guide for 2024-2025 on [www.stemk12.org](http://www.stemk12.org) for more information.

\* Indicates required question

1. Email \*

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2. Student's first name

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3. Student's last name

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4. English- You will need a total of 4.0 credits to graduate. Colleges want to see **4 full \*** **years of English** on your transcript.

**For AP Courses**

- Be a student of good standing in previous coursework and show a history of strong standardized test scores.
- Have a social maturity to excel in a college environment.
- Must follow the attendance policy at STEM School

Highland Ranch

Please see the Academic Planning Guide for more guidelines

*Mark only one oval.*

- English 1- (full year- worth 1.0)- STEMHS019S1/S2
- AP Language and Composition (full year- 1.0) STEMHS0120S1/S2- This course requires students to take the AP exam in May.
- World Literature- (full year-1.0) STEMHS0110S1/S2- Must have completed English 1

5. Math- You will need a total of 4.0 credits to graduate. **Placement test may be required for math courses** \*

**For AP and CE Courses**

- Be a student of good standing in previous coursework and

show a history of strong standardized test scores.

-Have a social maturity to excel in a college environment.

- Must follow the attendance policy at STEM School

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*Mark only one oval.*

- Algebra I (full year- worth 1.0) STEMHS029S1/S2
- Geometry (full year- worth 1.0) STEMHS0210S1/S2
- Algebra II (full year- worth 1.0) STEMHS0211S1/S2
- Tri/Pre Calculus (full year- worth 1.0) STEMHS0212S1/S2
- AP Pre Calculus (full year- worth 1.0) STEMHS0229S1/S2- Prerequisite- Algebra II and Geometry

6. Science- \*

-3 credit hours of lab based classes is required for graduation

-All classes, except electives, are lab based and year long

*Mark only one oval.*

- Biology (full year- worth 1.0) STEMHS0391S1/S2
- Chemistry (full year- worth 1.0) STEMHS0310S1/S2- Must have completed Biology
- AP Biology (full year- worth 1.0) STEMHS0317S1/S2- Biology and Chemistry strongly recommended
- Zoology (full year- worth 1.0) STEMHS0316S1/S2- Biology recommended
- CE BIO 2120- Zoology (semester- worth 0.5) STEMHS0320- Biology recommended
- AP Environmental Science (full year- worth 1.0) STEMHS0322

## 7. Social Studies- \*

3.5 credits are required for graduation

Students must take US Government to meet graduation requirements

Students must also take U.S. History, AP World History, or

AP European History to meet graduation requirements

US History is strongly recommended for out of state college

acceptance

*Mark only one oval.*

- Geography (semester- worth 0.5) STEMHS0412
- US Government (semester- worth 0.5) STEMHS049- required for graduation
- AP Human Geography (full year- worth 1.0) STEMHS0420S1/S2
- AP World History (full year- worth 1.0) STEMHS0423S1/S2
- AP Psychology (full year- worth 1.0) STEMHSSTEMHS0429
- Psychology (half year- worth 0.5) STEMHS0422
- Economics (half year- worth 0.5) STEMHS0413
- AP Microeconomics (full year- worth 1.0) STEMHS0427
- AP Macroeconomics (full year- worth 1.0) STEMHS0428

### Elective Options

You will choose a total of 8 electives. You will choose from World Language (count as 2),STEM Electives (count as 1), Physical Education (count as 1), Fine Art Elective (counts as 1), or General Elective (counts as 1)

**8. World Language**

2.0 credits required to graduate

*Mark only one oval.*

- Spanish I (full year- worth 1.0) STEMHS069SS1/S2
- Spanish II (full year- worth 1.0) STEMHS0610SS1/S2- Must complete Spanish I or a placement test
- French I (full year- worth 1.0) STEMHS069FS1/S2
- French II (full year- worth 1.0) STEMHS0610FS1/S2
- American Sign Language I (full year- worth 1.0) STEMHS069AS1/S2

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**STEM ELECTIVES- 3.0 credits required to graduate**

\* = required for PTECH program

Please view the Academic Planning Guide for a detailed course description.

*Mark only one oval.*

- Manufacturing (worth 0.5 credits- counts as 1 elective) STEMHS2115
- HS TSA (year long- worth 1.0 credits- counts as 2 electives) STEMHS2118
- Foundations of Engineering- (year long- worth 1.0 credits- counts as 2 electives) STEMHS2134S1/S2
- Aerospace Engineering I (worth 0.5 credits- counts as 1 elective) STEMHS234
- Aerospace Engineering II (worth 0.5 credits- counts as 1 elective) STEMHS238- Must have completed Aerospace Engineering I
- Biomedical Engineering I (worth 0.5 credits- counts as 1 elective) STEMHS236
- Biomedical Engineering II (worth 0.5 credits- counts as 1 elective) STEMHS237- Must complete Biomedical Engineering I
- Intro to HS Robotics (worth 0.5 credits- counts as 1 elective) STEMHS219
- \*CE CAD2455- SolidWorks (worth 1.0 credits- counts as 1 elective)- STEMHS2125
- \*CE CAD 2660 3D Print Manufacturing (worth 1.0 credits- counts as 1 elective) STEMHS2126
- \*CE ELT 1206 Fundamentals of DC/AC (worth 1.0 credit- counts as 1 elective) STEMHS2121
- \*CE EIC 1001 Electrical Print Reading (worth 1.0 credit- counts as 1 elective) STEMHS2133
- \* CE ELT 2254 Industrial Wiring (worth 1.0 credits- counts as 1 elective) STEMHS2129
- \* CE ELT 2252 Motors and Controls (worth 1.0 credits- counts as 1 elective) STEMHS2128
- \*CE ELT 2455 Fluid Power (worth 1.0 credits- counts as 1 elective) STEMHS2130
- \*CE ELT 2367 Introduction to Robotics (worth 1.0 credits- counts as 1 elective) STEMHS2132
- \*CE ELT 2358 Programmable Logic Controllers (worth 1.0 credits- counts as 1 elective) STEMHS2131
- HS CyberPatriots (worth 0.5- counts as 1 elective) STEMHS110
- Game Design I (worth 0.5- counts as 1 elective) STEMHS1017

- Gaming Studio (full year- worth 1.0- counts as 2 electives) STEMHS1025S1/S2
- AP Computer Science A (full year- worth 1.0 counts as 2 electives)  
STEMHS0114S1/S2
- AP Computer Principles (full year- worth 1.0 counts as 2 electives)  
STEMHS1015S1/S2
- \*CE CSC 1019- Intro to Programming (worth 1.0 credits- counts as 1 elective)  
STEMHS1031
- \*CE CSC 1026- Game Design and Development (worth 1.0 credits- counts as 1  
elective) STEMHS1032
- \*CE CNG 1021- Computer Technician I A+ (worth 1.5- counts as 1 elective)  
STEMHS1010
- \*CE CNG 1022- Computer Technician II A+ (worth 1.5- counts as 1 elective)  
STEMHS1011
- \*CE CSC 1060: Computer Science I: Language (worth 1.5 credits- counts as 1  
elective) STEMHS1033
- \*CE CSC 1061: Computer Science II Language (worth 1.5 credits- counts as 1  
elective) STEMHS1034
- Statistics (year long- worth 1.0- counts as 2 electives) STEMHS0215S1/S2
- Earth and Space Science (year long- worth 1.0- counts as 2 electives)  
STEMHS0325S1/S2

**10. Fine Arts Electives**

1.0 credit required to graduate

*Mark only one oval.*

- Ceramics I (worth 0.5- counts as 1 elective) STEMHS0512
- Ceramics II (worth 0.5- counts as 1 elective) STEMHS0513
- Draw/Paint I (worth 0.5- counts as 1 elective) STEMHS059
- Draw/Paint II (worth 0.5- counts as 1 elective) STEMHS0510
- Digital Media I (worth 0.5- counts as 1 elective) STEMHS0547
- Digital Media II (worth 0.5- counts as 1 elective) STEMHS0548
- Advanced Art (worth 0.5- counts as 1 elective) STEMHS0511
- \*CE MGD 1011 Adobe Photoshop I (worth 1.0- counts as 1 elective) STEMHS1037
- \*CE MGD 1043 Motion Graphic Design (worth 1.0- counts as 1 elective)  
STEMHS1036
- HS Theater I (worth 0.5- counts as 1 elective) STEMHS0123
- HS Theater II (worth 0.5- counts as 1 elective) STEMHS0125- Must have completed  
HS Theater 1
- HS Theater Tech (worth 0.5- counts as 1 elective) STEMHS0131
- HS Theater Performance (worth 0.5- counts as 1 elective) STEMHS0126- Must  
have completed Theater II
- HS Music Fundamentals (worth 0.5- counts as 1 elective) STEMHS0532
- HS Music Production (worth 0.5- counts as 1 elective) STEMHS0531
- HS Choir (worth 0.5- counts as 1 elective) STEMHS0526
- HS Beginner Band (year long- worth 1.0- counts as 2 electives) STEMHS0543S1/S2
- HS Orchestra (year long- worth 1.0- counts as 2 electives)STEMHS0542S1/S2
- HS Concert Band (year long- worth 1.0- counts as 2 electives) STEMHS0544S1/S2
- HS Intermediate Band (year long- worth 1.0- counts as 2 electives)  
STEMHS0528S1/S2



**11. Physical Education Elective**

1.0 credits required for graduation

*Mark only one oval.*

- Strength and Conditioning (worth 0.5- counts as 1 elective)- STEMHS0812
- HS PE (worth 0.5- counts as 1 elective) STEMHS089
- Sports and Games (worth 0.5- counts as 1 elective) STEMHS090
- Healthy Decisions (worth 0.5- counts as 1 elective) STEMHS0810
- HS Sports Psychology (worth 0.5- counts as 1 elective) STEMHS0431

**12. General Electives**

2.5 credits required to graduate

*Mark only one oval.*

- Principles of Finance (worth 0.5- counts as 1 elective) STEMHS1211
- Accounting (worth 0.5- counts as 1 elective) STEMHS1214
- School Based Enterprise/DECA (year long- worth 1.0- counts as 2 electives) STEMHS1215S1/S2
- CE BUS 1015 Intro to Business- (worth 0.5- counts as 1 elective) STEMHS128
- CE MAR 2016 Principles of Marketing- (worth 0.5- counts as 1 elective) STEMHS1212
- CE ENP 1005 Intro to Entrepreneurship (worth 0.5- counts as 1 elective) STEMHS1213
- CE BUS 1021 Basic Workplace Skills (worth 0.5- counts as 1 elective) STEMHS1216
- CE BUS 2017 Business Communications & Reporting (worth 0.5- counts as 1 elective) STEMHS1217
- CE BUS 2026 Business Statistics (worth 0.5- counts as 1 elective) STEMHS1218
- Yearbook (year long- worth 1.0- counts as 2 electives) STEMHS0113S1/S2
- HS Study Hall (worth 0.5- counts as 1 elective) STEMHS221
- Introduction to Creative Writing (worth 0.5- counts as 1 elective) STEMHS0127

### Alternatives

Please list 3 alternative ELECTIVE courses, in the event we are unable to accommodate choices indicated above.

- 13. Alternative Choice 1- Please write the name of the course and the course number \* below

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- 14. Alternative Choice 2- Please write the name of the course and the course number \* below

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- 15. Alternative Choice 3- Please write the name of the course and the course number \* below

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