

# 11th Grade Course Selection Sheet

This form is used to help students determine the courses needed for 11th 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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Sample Work Sheet. Not for submission

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.*

- American Literature (full year- 1.0) STEMHS0111S1/S2- Must have completed English 1
- AP Language and Composition (full year- 1.0) STEMHS0120S1/S2- This course requires students to take the AP exam in May.
- AP Literature and Composition (full year- 1.0) STEMHS0120S1/S2- This course requires students to take the AP exam in May
- CE ENG 1021- English Composition I- (half year- 1.0 credits) STEMHS0116- Must meet ACC Placement scores for English
- CE NG 1022- English Composition II- (half year- 1.0 credit) STEMHS0117 Must meet ACC Placement scores for English
- CE ENG 1020- Technical Writing I- (half year- 1.0 credit) STEMHS1030 Must meet ACC Placement scores for English
- CE Lit 1015- Into to Literature- (half year-1.0 credit) STEMHS0118- Must meet ACC Placement scores for English
- CE LIT 2002 World Literature after 1600 (half year-1.0 credit) STEMHS0119- Must meet ACC Placement scores for English

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

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**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

Highland Ranch

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*Mark only one oval.*

- Geometry (full year- worth 1.0) STEMHS0210S1/S2
- Algebra II (full year- worth 1.0) STEMHS0211S1/S2
- CE MAT 1340- College Algebra (semester- worth 0.5) STEMHS0222- This is for
- 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
- AP Calculus AB (full year- worth 1.0) STEMHS0216S1/S2- Prerequisite- Precalculus
- AP Calculus BC (full year- worth 1.0) STEMHS0217S1/S2- Trigonometry required AP Calculus AB recommended
- AP Statistics (full year- worth 1.0) STEMHS0218S1/S2- Algebra II required
- Financial Literacy- (full year- worth 1.0) STEMHS0214S1/S2

## 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.*

- Chemistry (full year- worth 1.0) STEMHS0310S1/S2- Must have completed Biology
- AP Chemistry (full year- worth 1.0) STEMHS0318S1/S2- Chemistry and Algebra II are strongly recommended.
- AP Biology (full year- worth 1.0) STEMHS0317S1/S2- Biology and Chemistry strongly recommended
- AP Environmental Science (full year- worth 1.0) STEMHS0322
- Zoology (full year- worth 1.0) STEMHS0316S1/S2
- CE BIO 2120- Zoology (semester- worth 0.5) STEMHS0320- Biology recommended
- Physics (full year- worth 1.0) STEMHS0311S1/S2- 1 lab based science and Geometry are strongly recommended
- AP Physics I (full year worth 1.0) STEMHS0320S1/S2- Prerequisite Geometry (completed) and Algebra 2(can be taken concurrently)
- AP Physics II (full year worth 1.0) STEMHS0321S1/S2- Prerequisite AP Physics I (completed) and Calculus(can be taken concurrently)
- AP Physics C (full year worth 1.0) STEMHS0319S1/S2- Prerequisite AP Physics I (completed) and Calculus(can be taken concurrently)
- Human Anatomy & Physiology (full year- worth 1.0) STEMHS0312- Biology strongly recommended

## 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
- World History (full year- worth 1.0) STEMHS0410
- US History (full year- worth 1.0) STEMHS0411
- AP US History (full year- worth 1.0) STEMHS0424
- 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
- AP European History (full year- worth 1.0) STEMHS0430
- AP Government & Politics (full year- worth 1.0) STEMHS0421

### 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
- Spanish III (full year- worth 1.0) STEMHS0611SS1/S2- Must complete Spanish II or a placement exam
- Spanish IV (full year- worth 1.0) STEM0612SS1/S2- Must complete Spanish III or a placement exam
- AP Spanish Language and Culture (full year- worth 1.0) STEMHS0612SS1/S2- Must complete Spanish IV or a placement exam
- AP Spanish Literature (full year- worth 1.0) STEMHS06155SS1/S2- Must complete Spanish IV or a placement exam
- French I (full year- worth 1.0) STEMHS069FS1/S2
- French II (full year- worth 1.0) STEMHS0610FS1/S2- Must complete French I or a placement exam
- French III (full year- worth 1.0) STEMHS0611FS1/S2- Must complete French II or a placement exam
- French IV (full year- worth 1.0) STEMHS0612FS1/S2- Must complete French III or a placement exam.
- AP French (full year- worth 1.0) STEMHS0613FS1/S2- Must complete French IV or a placement exam
- American Sign Language I (full year- worth 1.0) STEMHS069AS1/S2
- American Sign Language II (full year- worth 1.0) STEMHS070ASS1/S2

9.

**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
- Biomedical Engineering III (worth 1.0 credits- counts as 2 electives) STEMHS238S1/S2- Must complete Biomedical Engineering II
- 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

- Game Design I (worth 0.5- counts as 1 elective) STEMHS1017
- Gaming Studio (full year- worth 1.0- counts as 2 electives) STEMHS1025S1/S2
- HS CyberPatriots (worth 0.5- counts as 1 elective STEMHS110
- 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 CNG 1024 Networking I: Network + (worth 1.0- counts as 1 elective)  
STEMHS1012
- \*CE CNG 1025 Network II: Network + (worth 1.0- counts as 1 elective) STEMHS1013
- \*CE CSC 1060 Computer Science I: Language (worth 1.5- counts as 1 elective)  
STEMHS1033
- \*CE CSC 1061: Computer Science II: Language (worth 1.5- counts as 1 elective)  
STEMHS1034
- \*CE CSC 2000 Game Programming I (worth 1.0- counts as 1 elective) STEMHS1035
- \*CE CSC 2017 Adv. Python (worth 1.0- counts as 1 elective) STEMHS1038
- \*CE CIS 2040 Database Design and Development (worth 1.0- counts as 1 elective)  
STEMHS1029
- \*CE CIS 2043 Introduction to SQL (worth 1.0- counts as 1 elective) STEMHS1030
- Certified Ethical Hacker (worth 0.5- counts as 1 elective) STEMHS1023
- \*CE CIS 2020 Fundamentals of UNIX (worth 1.0- counts as 1 elective) STEMHS1028
- Earth and Space Science (year long- worth 1.0- counts as 2 electives)  
STEMHS0325S1/S2
- Intro to Marine Biology (semester- worth 0.5- counts as 1 elective) STEMHS0302



**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
- Ceramics III (worth 0.5- counts as 1 elective) STEMHS0535
- 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
- AP Studio Art: 2 D Design (year long- worth 1.0- counts as 2 elective) STEMHS0521
- AP Studio Art: 3D Design (year long- worth 1.0- counts as 2 elective) STEMHS0523
- Gaming Studio (year long- worth 1.0- counts as 2 electives) STEMHS1025
- \*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 Beginning Band (year long- worth 1.0- counts as 2 electives)  
STEMHS0543S1/S2
- HS Concert Band (year long- worth 1.0- counts as 2 electives) STEMHS0544
- HS Orchestra (year long- worth 1.0- counts as 2 electives)STEMHS0542S1/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

Sample Work Sheet. Not for Submission

**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 Communication & 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
- Professional Internship (Fall/Spring) (worth 0.5- counts as 1 elective) STEMHS2124
- Teacher/Office Assistant (worth 0.25- counts as 1 elective) STEMHS224

**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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