



8773 South Ridgeline Blvd
 Highlands Ranch CO 80129
 303.683.STEM (7836)
 www.STEMk12.org

Opened: August 2011
 2023 - 2024 Enrollment (9-12): 453 students
 CEEB Code: 060741

STEM School Highlands Ranch

A Public Charter School of the Douglas County School District for Grades K - 12

Academic Program

Most courses follow standard DCSD (Douglas County School District) course descriptions and syllabi. Concurrent Enrollment classes have "CE" titles and are italicized.

Concurrent Enrollment (CE): Simultaneous enrollment in an institution of higher education or career and technical course that may render college credit and satisfy credits toward high school graduation.

All STEM school students are required to take a **full schedule of eight classes** per semester in grades 9 & 10. Students may be allowed to take **six classes** per semester in grade 11 & 12.

WHO WE ARE

We are an innovative, free, public, charter learning community that puts innovation in the center of learning in order to unleash the unlimited potential of every child and prepare them for a world full of exponential possibilities.

WHAT WE DO

We offer a rigorous, relevant, real world education that is rooted in STEM-based problem-solving and fueled by constant innovation, exploration, inquiry and discovery

College Counselor Kelli Myrick, kelli.myrick@stemk12.org
Counselors Colene Birchfield, colene.birchfield@stemk12.org
 Madison Grebe, madison.grebe@stemk12.org
Registrar Stacey Lee, registrar@stemk12.org

Graduation Requirements

A total of 24 credits are required for graduation and include minimum requirements as follows.

Department	Required Credit
English	4.0 credits
Mathematics	4.0 credits
Science	3.0 credits
Social Studies	3.5 credits
World Language	2.0 credits
S.T.E.M. Elective	3.0 credits
Fine Arts	1.0 credit
Physical Education/Health	1.0 credit
General Electives	2.5 credit

English/Language Arts:

English I
CE-ENG 1021 English Comp I
CE-ENG 1022 English Comp II
CE-ENG 1020 Technical Writing I
 World Literature
CE-LIT 1015 Intro to Literature
CE-LIT 2002 World Lit. post 1600
 American Literature
 AP Language and Composition
 AP Literature and Composition
 British Literature
Science:
 Biology, AP
 Chemistry, AP
 Physics
 AP Physics I- Algebra based
 AP Physics C
 Human Anatomy and Physiology
 Astronomy
 Intro to Marine Biology
 Meteorology
 Earth and Space Science
 Zoology
 AP Environmental Science

Math:

Algebra I, II
 Geometry
 Trigonometry/ Pre- Calculus
 AP - Pre Calculus
 AP Calculus AB, BC
 Statistics, AP
 Financial Literacy
Social Studies:
 US Government
 Geography
 AP Government and Politics
 World History, AP
 US History, AP
 U.S. Foreign Policy
 AP Human Geography
 Psychology, AP
 Economics
 AP Microeconomics
 AP Macroeconomics
 AP European History
Fine & Performing Arts:
 Ceramics I, II, III
 Drawing & Painting I, II
 Digital Media I, II
 Gaming Studio

AP Studio Art: Drawing
 AP Studio Art: 2D Design: Photo
 AP Studio Art: 2D Design:Paint
 AP Studio Art: 3D Design:
 Ceramics
CE MGD 1043 Motion Graphic Design I
CE MGD 1011 Adobe Photoshop
 Beginner Band
 Intermediate Concert Ensemble
 Beginner Orchestra
 Choir
 Music Fundamentals
 Music Production
 Theater I, II
 Theater Performance
World Languages:
 French I, II, III, IV, AP
 Spanish I, II, III, IV, AP
 American Sign Language I, II
Computer Science:
 Intro to Programming
 Game Design I, II
 Gaming Studio
 AP Computer Science A
 AP Computer Science Principles
 Data Structures and Algorithms

CE-CNG 1021 A+ I
CE-CNG 1022 A+ II
CE-CNG 1024 Networking I
CE-CNG 1025 II
CE-CIS 2020 Fundamentals of UNIX
CE-CIS 2040 Database Design and Development
CE-CIS 2043 Introduction to SQL
 Certified Ethical Hacker
 Artificial Intelligence and Machine Learning
CE-CSC 1019 Intro to Programming
CE-CSC 1026 Game Design and Development
CE-CSC 1060 Computer Science I: Language
CE-CSC 1061 Computer Science II: Language
CE-CSC 2000 Game Programming I
Engineering:
 Robotics I, II
 TSA
 CAD
 Manufacturing
 Advanced Manufacturing
CE-ELT 1206 Fundamentals of DC/AC
CE EIC 1001 Electrical Print Reading

CE-ELT 2254 Industrial Wiring
CE-ELT 2252 Motors and Controls
CE-ELT 2455 Fluid Power
CE-ELT 2358 Programmable Logic Controllers
CE-ELT 2367 Intro. to Robotics
CE-CAD 2455 Solidworks
CE-CAD 2660 3D Printing & Additive Manufacturing
 Aerospace Engineering
 Intro to Materials Science
 Intro to Biomedical Engineering I, II
Electives:
 Principles of Finance
 Accounting I
 School-Based Enterprise
CE-MAR 2016 Principles of Marketing
CE-ENP 1005 Intro. to Entrepreneurship
CE-BUS 1015 Intro. to Business Yearbook
 Intro. to Creative Writing
 Physical Education
 Healthy Decisions
 Weight Training
 Professional Internship

Grading, Weighting, Class Rank

Grading Standards:

STEM does not issue any plus (+) or minus (-) grades

A	90-100	4.0
B	80-89	3.0
C	70-79	2.0
D	60-69	1.0
F	0-59	

Weighting:

An additional 1.0 weighting is given to all Concurrent Enrollment (CE) and Advanced Placement (AP) grades.

GPA/Class Rank:

STEM School does not rank students. Grade point average is cumulative, based on all the courses for which credit is given.

Class of 2024 (116 students)

Weighted GPA Distribution

Top Quartile	4.34 - 4.76
Second Quartile	3.90 - 4.33
Third Quartile	3.41 - 3.90
Fourth Quartile	1.29 - 3.40

SAT Data (#)	Middle 50%	Mean
116 test takers	1030-1320	1173

AP Exams (May 2022)	395 exams, 21 areas
201 test takers	Grades of 3 or higher: 69%

Class of 2023 (101 students)

98% applied and accepted to college

81% attending 4-year colleges

7% attending 2-year colleges

College Acceptances for the Classes of 2022 - 2023

Arapahoe Community College
Arizona State University
Auburn University
Bangor University - Bangor, Wales
Baylor University
Binghamton University
Boise State University
Bowdoin College
California Lutheran University
California Polytechnic State University
California State University - Long Beach
Case Western - Reserve University
Champlain College
Clemson University
Colorado Christian University
Colorado College
Colorado Mesa University
Colorado School of Mines
Colorado State University
Columbia University
Community College of Denver
Cornell University
Creighton University
Dartmouth College
Drake University
Drexel University
Duke University
Eastern Connecticut State University
Eckerd College
Embry-Riddle Aeronautical University
Emerson College
Emory University
Fashion Institute of Technology
Florida International University
Florida State University
Fordham University
Fort Lewis College
George Mason University
George Washington University
Georgia Institute of Technology
Gonzaga University
Hamline University
Harvey Mudd College
Harvard University
Hofstra University
Hope College
Howard University
Ithaca College
Johns Hopkins University
John Jay College of Criminal Justice
Kenyon College
Kettering University
Lafayette College

Lehigh University
Loyola University
Maine Maritime Academy
Marquette University
Massachusetts Institute of Technology
McGill University - Quebec, Canada
Metropolitan State University of Denver
Miami University
Michigan State University
Middlebury College
Montana State University
New Mexico State University
North Carolina State University
Northeastern University
Northern Arizona University
Northwest Missouri State University
Nova Southeastern University
Oregon Institute of Technology
Oregon State University
Pace University
Pacific Lutheran University
Pennsylvania State University
Purdue University
Queen's University - Ontario, Canada
Radford University
Regis University
Reed University
Rensselaer Polytechnic Institute
Rhodes College
Rider University
Ringling College of Art and Design
Rochester Institute of Technology
Rose-Hulman Institute of Technology
Rowan University
Rutgers University
Sam Houston State University
San Jose State University
Seattle University
South Dakota School of Mines & Technology
Southern Maine Community College
Southern Methodist University
Stanford University
St. Olaf University
Texas A&M University
Texas A&M University - Galveston
Texas Christian University
The Ohio State University
Trinity College Dublin - Dublin, Ireland
United States Air Force Academy
United States Military Academy West Point
University of Alaska
University of Arizona
University of British Columbia

University of California - Berkeley
University of California - Davis
University of California - Irvine
University of California - Los Angeles
University of California - San Diego
University of California - Santa Cruz
University of Colorado - Boulder
University of Colorado - Colorado Springs
University of Colorado - Denver
University of Delaware
University of Denver
University of Florida
University of Georgia
University of Maryland
University of Massachusetts
University of Miami
University of Michigan
University of Minnesota
University of Missouri
University of Nebraska
University of New England
University of New Mexico
University of North Carolina
University of Northern Colorado
University of Oregon
University of Pennsylvania
University of Pittsburgh
University of Rochester
University of San Diego
University of San Francisco
University of Southern Maine
University of South Florida
University of Tampa
University of Texas - Dallas
University of Texas - San Antonio
University of Toronto
University of Tulsa
University of Utah
University of Vermont
University of Virginia
University of Washington
University of Wisconsin
Virginia Tech
Washington College
Washington State University
Washington University
Wesleyan University
Western Colorado University
Western Washington University
Whittier College
Williams College
Worcester Polytechnic Institute
Yale University