



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

Opened: August 2011
 2022 - 2023 Enrollment (9-12): 498 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
 Michael Link, michael.link@stemk12.org
Registrar Julie Pieper, julie.pieper@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 credi

English/Language Arts:

English I
CE-ENG 121 English Comp I
CE-ENG 122 English Comp II
CE-ENG 131 Technical Writing I
 World Literature
CE-LIT 115 Intro to Literature
CE-LIT 202 World Lit. after 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
 Research and Lab Methodology
 Zoology
 AP Environmental Science

Math:

Algebra I, II
 Geometry
 Trigonometry/ Pre- Calculus

AP Calculus AB
 AP Calculus BC
 Statistics, AP
 Financial Literacy
 Cryptography
CE-MAT 204 Calculus III
CE-MAT 255 Linear Algebra
CE-MAT 261 Different Equations
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
Fine & Performing Arts:
 Ceramics I, II, III
 Drawing & Painting I, II
 Concept Art
 Digital Photography I, II
 Video Production I, II, III
 Graphic Design I, II

Gaming Studio
 Art III
 AP Studio Art: Drawing
 AP Studio Art: 2D Design: Photo
 AP Studio Art: 2D Design:Paint
 AP Studio Art: 3D Design:
 Ceramics
 3D Modeling: Asset Design
 Beginner Band
 Intermediate Concert Ensemble
 Choir
 Music Fundamentals
 Music Production
 Theater I, II
 Theater Performance
World Languages:
 French I, II, III, IV, AP
 Spanish I, II, III, IV
 AP Spanish Lang. and Culture
 American Sign Language
Computer Science:
 Intro to Programming
 Game Design I, II
 Gaming Studio
 AP Computer Science A
 AP Computer Science Principles
 Data Structures and Algorithms

Database Design, Query, and Load
CE-CNG 121 A+ I
CE-CNG 122 A+ II
CE-CNG 124 Networking I
CE-CNG 125 II
CE-CIS 220 Fundamentals of UNIX
CE-CIS 240 Database Design and Development
CE-CIS 243 Introduction to SQL
 Certified Ethical Hacker
 Artificial Intelligence and Machine Learning
Engineering:
 Robotics I, II
 TSA
 CAD
 Digital Electronics
CE-ELT 106 Fundamentals of DC/AC
 Advanced Manufacturing
CE EIC 102 Electrical Print Reading
CE -ELT 254 Industrial Wiring
CE -ELT 252 Motors and Controls
CE -ELT 255 Fluid Power

CE -ELT 258 Programmable Logic Controllers
CE -ELT 267 Intro. to Robotics
CE-CAD 255 Solidworks
CE-CAD 262 3D Printing & Additive Manufacturing
CE-AEC 110 Architectural Design & Modeling
CE-AEC 206 Applied Structural Analysis
Electives:
 Principles of Finance
 Accounting I
 School-Based Enterprise
CE-MAR 216 Principles of Marketing
CE-ENP 105 Intro. to Entrepreneurship
CE-BUS 115 Intro. to Business
 Intro. To Scrum, Agile, and Project Management
 Yearbook
 Intro. to Creative Writing
 Physical Education
 Professional Internship

Grading, Weighting, Class Rank

Class of 2023 (122 students)

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.

Weighted GPA Distribution

Top Quartile	4.21 - 4.85
Second Quartile	3.74 - 4.12
Third Quartile	3.21 - 3.73
Fourth Quartile	0.54 - 3.16

SAT Data (#)	Middle 50%	Mean
103 test takers	1040-1300	1166

AP Exams (May 2022)	411 exams, 22 areas
227 test takers	Grades of 3 or higher: 65%

Class of 2022 (139 students)

98% applied and accepted to college

81% attending 4-year colleges

11% attending 2-year colleges

College Acceptances for the Class of 2021 and 2022

Arapahoe Community College
Arizona State University
Bangor University - Bangor, Wales
Baylor University
Benedictine College
Boston University
Bucknell University
California Lutheran University
California Polytechnic State University
Case Western - Reserve University
Cedarville University
Chapman University
Colorado Christian University
Colorado College
Colorado Mesa University
Colorado School of Mines
Colorado State University
Columbia University
Concordia University
Cornell College
Creighton University
DePaul University
DigiPen Institute of Technology
Drake University
Duke University
Embry-Riddle Aeronautical University
Emerson College
Emory University
Florida State University
Florida Southern College
Fort Lewis College
Georgetown University
Georgia Institute of Technology
Grand Canyon University
Hamline University
Hawaii Pacific University
Hofstra University
Hope College
Iowa State University
Ithaca College
Johns Hopkins University
John Jay College of Criminal Justice
Kansas State University
Kenyon College
Lafayette College
Lake Forest College
Loyola Marymount University
Loyola University
Marshall University
Massachusetts College of Pharmacy and Health Sciences
Metropolitan State University of Denver
Michigan State University
Milwaukee School of Engineering

Montana State University
New Mexico State University
New York University
North Carolina State University
Northeastern University
Northern Arizona University
Northwestern University
Norwich University
Ohio State University
Oregon Institute of Technology
Oregon State University
Pennsylvania State University
Purdue University
Queen's University - Ontario, Canada
Radford University
Regis University
Rensselaer Polytechnic Institute
Rhodes College
Rider University
Rochester Institute of Technology
Rose-Hulman Institute of Technology
Rowan University
Rutgers University
St. Mary's College of California
St. Olaf College
San Diego State University
Santa Clara University
Santa Fe College
Savannah College of Art and Design
Seattle Pacific University
South Dakota School of Mines & Technology
Southern Utah University
Temple University
Texas A&M University
Texas A&M University - Galveston
Texas Christian University
Texas Tech University
The Master's University
Trinity College Dublin - Dublin, Ireland
Trinity University
United States Air Force Academy
United States Military Academy West Point
University College of Dublin
University of Alaska
University of Arizona
University of California - Berkeley
University of California - Irvine
University of California - Los Angeles
University of California - San Diego
University of California - Santa Barbara
University of California - Santa Cruz
University of Central Florida
University of Cincinnati

University of Colorado - Boulder
University of Colorado - Colorado Springs
University of Colorado - Denver
University of Connecticut
University of Denver
University of Florida
University of Georgia
University of Hawaii
University of Illinois
University of Iowa
University of Kansas
University of La Verne
University of Maine
University of Maryland
University of Massachusetts
University of Michigan
University of Minnesota
University of Missouri
University of Montana
University of Nebraska - Lincoln
University of New Hampshire
University of North Carolina
University of North Dakota
University of Northern Colorado
University of Oklahoma
University of Oregon
University of Pittsburgh
University of Portland
University of Rochester
University of San Diego
University of San Francisco
University of Southern California
University of Southern Maine
University of Tampa
University of Tulsa
University of Utah
University of Victoria - British Columbia, Canada
University of Virginia
University of Washington
University of Wisconsin
University of Wyoming
Vanguard University
Virginia Commonwealth University
Virginia Tech
Washington College
Washington State University
Wentworth Institute of Technology
Western Colorado University
Western Michigan University
Western Washington University
Wichita State University
Worcester Polytechnic Institute
York College of Pennsylvania