

High School STEM Course Options



Draft of 2020-21 Course List

Key Points

- HCS high school programs have traditionally offered many courses that support students' interests in science, technology, engineering, and math.
- Each school's course list consists of currently offered and newly selected STEM (science, technology, engineering, and math) courses. These courses will be available for students to request for 2020-21.
- Each school's course list may change based on the following:
 - Students' course requests
 - Teacher allocations and certification
 - Availability of online and dual-enrollment courses

AAST

Advanced Animation

Advanced Web Page Design & Development 2

Algebra 2

Algebra 2 Honors

Anatomy and Physiology Honors

AP Biology

AP Biology Seminar Honors

AP Calculus BC

AP Calculus AB Seminar

AP Calculus AB

AP Capstone Research AP

AP Capstone Seminar AP

AP Chemistry

AP Chemistry Seminar Honors

AP Environmental Science

AP Microeconomics

AP Principles of Computer Science

AP Psychology

Biology 1 Honors

Biology 1

Calculus Honors

Chemistry 1

Chemistry Honors

Clean Energy Systems SREB Cr 1 Honors

Computer Programming 1

Computer Programming 2

Core Engineering 1

Core Engineering 2

Core Engineering 3

Core Engineering 4

Cyber Security Fundamentals

Digital Media Marketing

Digital Multimedia

Economics

Economics Honors

Emergency Medical Services 1

Forensic Science

Forensic Science Honors

Fund of Web Page Design & Development 1

Fundamentals of Aerospace Technology Honors

Fundamentals of Computing

Geometry Honors

GIS Technology 1

Health Science 1

Health Science 2

Health Science 3 Honors

Health Science Clinic Study

Image Editing 1

Image Editing 2

Introduction to Engineering

Marine Science Honors

Media Arts 1

Media Technology 1

Media Technology 2

Media Technology 3

Media Technology 4

Medical Terminology

Networking Fundamentals 1

Physical Science Honors

Physics Honors

Precalculus

Precalculus Honors

Probability and Statistics

Probability and Statistics Honors

Science Research 1 Honors

The Nature of Science and Tech (SREB) Honors

NEW 2020-21 Courses:

Informatics

Logistics

Second Course Fundamentals of Aerospace SREB Honors

Second Course Nature of Science and Tech SREB Honors

Second Course Clean Energy Systems SREB Honors

Advanced Cybersecurity

Advanced Networking

Computer Forensics

Game Design and Development

GIS 2

IT Fundamentals

AP Physics

AP Statistics

Biology 2

EMS 1

Note: Online and dual-enrollment STEM courses are also offered.

AHS

Agribusiness and Marketing
Agriculture Sci Tech
Agricultural Mechanics & Technology
Algebra 1
Algebra 1 Honors
Algebra 1 Seminar
Algebra 2
Algebra 2 Honors
Anatomy and Physiology Honors
Animal Science
AP Calculus AB Seminar
AP Calculus(AB)
AP BC Calculus
AP Environmental Science
Biology 1 Honors
Biology 1
Biology 2
Biology 2 Honors
Calculus Honors
Chemistry 1
Chemistry Honors
Computer Repair & Service Technology 1
Digital Media Marketing
Digital Multimedia
Digital Publication Design

Economics
Economics Honors
Environmental Science
Equine Science
Family and Consumer Sciences 1
Foods and Nutrition 1
Foods and Nutrition 2
Forestry
Foundations in Algebra
Foundations of Animation
Fundamentals of Web Page Design & Development 1
Geometry
Geometry Honors
Google Applications
IB Biology High Level-1
IB Biology High Level-2
IB Biology Seminar-Honors
IB Info Technology in Global Society Standard Level
IB Mathematics Applications and Interpretations Standard Level
Image Editing 1
Image Editing 2
Intermediate Algebra
Introduction to Veterinary Science
Physical Science

Physical Science Honors
PLTW Computer Science Principles Honors
Precalculus Honors
Probability and Statistics
Probability and Statistics Honors
Technical Scholars Welding Program
Wildlife Management

New Course 2020-21:

PLTW Principles of Biomedical Science Honors

Note: Online and dual-enrollment STEM courses are also offered.

ATA

Algebra 2
Algebra 3
Anatomy and Physiology
Anatomy and Physiology Honors
Architecture and Construction Work-based
Art Audio-Vid, Technology Comm,Work-based
Automotive Technology 1
Automotive Technology 2
Automotive Technology 3
Automotive Technology 4
Biology 1
Building Construction Cluster 1
Building Construction Cluster 2
Building Construction Cluster 3
Carpentry 1
Chemistry 1
Chemistry Honors
Digital Art and Design 1
Digital Art and Design 2

Digital Art and Design 3
Digital Art and Design 4
Digital Desktop Publishing
Digital Media Marketing
Digital Publication Design
Economics
Economics Honors
Engineer & Industry Technology Education Work-based
Environmental Science
Forensic Science
Foundations in Algebra
Fund of Web Page Design & Development 1
Fundamentals of Computing
Geometry
Google Applications
Health Science 1
Health Science 2
Health Science 3
Health Science 3 Honors
Health Science Clinic Study
Intermediate Algebra

Medical Terminology
Physical Science
Physics
PLTW Computer Science Principles Honors
PLTW Digital Electronics
PLTW Engineering Design and Dev Honors
PLTW Environmental Sustainability Honors
PLTW Intro to Engineering Design Honors
PLTW Principles of Engineering Honors
Precalculus Honors
Probability and Statistics
Transportation, Distribution & Logistics,Work-Based

New Course 2020-21:

Drone Aviation Technology (Certification)

Note: Online and dual-enrollment STEM courses are also offered.

CFHS

Agriculture Science Technology

Algebra 1

Algebra 1 Honors

Algebra 1 Seminar

Algebra 2

Algebra 2 Honors

Algebra 3

Anatomy and Physiology Honors

AP Biology

AP Biology Seminar Honors

AP Calculus (BC)

AP Calculus AB Seminar

AP Calculus(AB)

AP Capstone Research (AP)

AP Capstone Seminar (AP)

AP Chemistry

AP Chemistry Seminar Honors

AP Computer Science

AP Environmental Science

AP Environmental Science Seminar Honors

AP Microeconomics

AP Physics I

AP Physics Seminar Honors

AP Psychology

AP Statistics

Biology 1 Honors

Biology 1

Chemistry 1

Chemistry Honors

Computer Programing with Java 1

Computer Programming 1

Digital Photography

Economics

Environmental Natural Resources Mgmt

Environmental Science

Foundations in Algebra

Foundations in Algebra Seminar

Foundations of Animation

Fund of Web Page Design & Development 1

Fundamentals of Computing

Game Design and Development

Geometry

Geometry Honors

Image Editing 1

Intermediate Algebra

Nursery Greenhouse & Garden Center Technology

Personal Finance

PLTW Civil Engineering and Architecture Honors

PLTW Cybersecurity Honors

PLTW Human Body Systems Honors

PLTW Intro to Engineering Design Honors

PLTW Medical Interventions Honors

PLTW Principles of Biomedical Sciences Honors

PLTW Principles of Engineering Honors

Precalculus Honors

Probability and Statistics

Sociology

Technical Scholars Welding Program

Turf and Lawn Management

Wildlife Management

Note: Online and dual-enrollment
STEM courses are also offered.

CHS

Advanced Web Page Design & Development 2
Agricultural, Food & Natural Resources
Agriculture Sci Tech
Agricultural Mechanics & Technology
Algebra 1
Algebra 1 Honors
Algebra 1 Seminar
Algebra 2
Algebra 2 Honors
Algebra 3
Anatomy and Physiology Honors
AP Calculus (BC)
AP Calculus(AB)
AP Chemistry
AP Chemistry Seminar Honors
AP Environmental Science
AP Environmental Science Seminar Honors
AP Physics I
AP Statistics
Biology 1 Honors
Biology 1
Chemistry 1
Chemistry Honors
Civil Engineering and Architecture
Digital Desktop Publishing

Digital Multimedia
Digital Publication Design
Economics
Economics Honors
Entrepreneurship
Environmental Science
Farm Animal Production
Foundations in Algebra
Foundations in Algebra Seminar
Fund of Web Page Design & Development 1
Fundamentals of Computing
Geometry
Geometry Honors
Google Applications
Health Science 1
Health Science 2
Intermediate Algebra
Introduction to Veterinary Science
Image Editing 1
Image Editing 2
Marine Science
Medical Billing and Coding
Medical Terminology
Pharmacology for Medical Careers
Physical Science
Physical Science Honors
Physics Honors
PLTW Civil Engineering and Arch Honors

PLTW Computer Science Essentials Honors
PLTW Computer Science Principles Honors
PLTW Human Body Systems Honors
PLTW Intro to Engineering Design Honors
PLTW Principles of Biomedical Sciences Honors
PLTW Principles of Engineering Honors
Precalculus Honors
Probability and Statistics
Probability and Statistics Honors
Small Animal Care
Sports Medicine 1
Sports Medicine Work Based
Sports Turf Management
Technical Scholars Welding Program
Turf and Lawn Management

New Course 2020-21:

PLTW Cybersecurity Honors

Note: Online and dual-enrollment STEM courses are also offered.

ECHS

ACC 101 Accounting Principles I
ACC 102 Accounting Principles II
ACR 102 Tools and Service Techniques
ACR 106 Basic Electricity for HVAC
ACR 108 Refrigeration Fundamentals
ACR 110 Heating Fundamentals
ACR 118 Air Conditioning Fundamentals
ACR 140 Automatic Controls
ACR 160 Service Customer Relations
ACR 206 Advanced Electricity for HVAC
ACR 250 Duct Fabrication
AET 101 Building Systems
AHS 102 Medical Terminology
Algebra 1
Algebra 2
Algebra 3
Anatomy and Physiology
ANT 101 Anthropology
ARC 210 Heat Pumps
ARV 110 Computer Graphics
ARV 121 Design
ARV 162 Graphic Reproduction I
ARV 210 Computer Graphics 2
ARV 212 Digital Photography
AST 101 Solar System Astronomy
AST 102 Stellar Astronomy

Beginning Algebra Remed (Mat 101)
BIO 101 Biology I
BIO 102 Biology II
Bio 105 Principles of Biology
BIO 112 Basic Anatomy and Physiology
BIO 210 Anatomy and Physiology
BIO 211 Anatomy and Physiology II
Biology 1
CET 127 Building Construction & Print Reading
Chemistry 1
CHM 110 College Chemistry I
CHM 111 College Chemistry II
CPT 114 Computer Programming
CPT 168 Programming Logic & Design
CPT 187 Object-Orientation Logic & Design
CPT 209 Computer Systems Management
CPT 278 Computer Software Applications
CRJ 201 Fingerprint Science
CRJ 202 Criminalists
ECO 210 Macroeconomics
ECO 211 Microeconomics
Economics
Economics Honors
EET 113 Electrical Circuits I
EGR 170 Engineering Materials
EGR 260 Engineering Statics
EGR 270 Introduction to Engineering
EGR 275 Intro to Engineering Computer Graphics

EGR 285 Engineering Survey 1
EGR 295 Engineer Survey Lab I
EGT 101 Basic Technical Drawing
Introduction to Civil Engineering
IST 166 Network Fundamentals
IST 190 Linux Essentials
Machine Tool Computer Applications
MAT 102 Intermediate Algebra
MAT 110 College Algebra
MAT 111 College Trigonometry
MAT 120 Probability and Statistics
MAT 122 Finite College Mathematics
MAT 130 Elementary Calculus
MAT 155 Contemporary Mathematics
MAT 175 Algebra & Trigonometry I
MGT 101 Principles of Management
MKT 101 Introduction to Marketing
Probability and Statistics
Technical Scholars Welding Program

New Courses 2020-21: Additional STEM courses available through HGTC and online.

GSFHS

Algebra 1
Algebra 1 Honors
Algebra 1 Seminar
Algebra 2
Algebra 2 Honors
AP Calculus AB Seminar
AP Calculus(AB)
AP Statistics
AP Statistics Seminar Honors
Biology 1 Honors
Biology 1
Chemistry 1
Chemistry Honors
Digital Desktop Publishing
Digital Photography
Digital Publication Design
Economics
Economics Honors
Foundations in Algebra
Foundations in Algebra Seminar
Fundamentals of Web Page Design & Development 1
Fundamentals of Computing
Fundamentals of Computing Part 1

Fundamentals of Computing Part II
Geometry
Geometry Honors
Intermediate Algebra
Introduction to Horticulture
Landscape Technology
Nursery Greenhouse & Garden Center Tech
Physical Science
Physical Science Honors
PLTW Introduction to Engineering Design Honors
Precalculus Honors
Probability and Statistics
Soil and Soiless Research
Technical Scholars Welding Program
Turf and Lawn Management

New Courses 2020-21:

PLTW Principles of Biomedical Science Honors
PLTW Principles of Engineering Honors

Note: Online and dual-enrollment STEM courses are also offered.

LHS

Agribusiness and Marketing
Agriculture Science Technology
Algebra 1
Algebra 2
Algebra 2 Honors
AP Calculus(AB)
AP Environmental Science
AP Environmental Science Seminar Honors
AP Statistics
Biology 1 Honors
Biology 1
Calculus Honors
Chemistry 1
Chemistry Honors
Computer Forensics
Digital Media Marketing
Digital Photography
Digital Photography 2
Economics
Economics Honors
Entrepreneurship

Environmental Science
Forestry
Foundations in Algebra
Foundations in Algebra Seminar
Fund of Web Page Design & Development 1
Fundamentals of Computing
Game Design and Development
Geometry
Geometry Honors
Health Science 1
Health Science 2
Health Science 3
Intermediate Algebra
Medical Terminology
Physical Science
Physical Science Honors
PLTW Principles of Biomedical Science Honors
Precalculus Honors
Probability and Statistics
Sports Turf Management
Technical Scholars Welding Program

Turf and Lawn Management
Virtual Enterprise 1
Virtual Enterprise 2
Virtual Enterprise 3 Honors
Virtual Enterprise 4 Honors
Wildlife Management

New Course 2020-21:

PLTW Introduction to Engineering and Design
Honors

Note: Online and dual-enrollment STEM courses
are also offered.

MBHS

Accounting 1
Accounting 2
Algebra 1
Algebra 1 Honors
Algebra 1 Seminar
Algebra 2
Algebra 2 Honors
Algebra 3
Anatomy and Physiology Honors
AP Biology
AP Calculus (BC)
AP Calculus(AB)
AP Capstone Seminar (AP)
AP Capstone Seminar Honors
AP Macroeconomics
AP Microeconomics
AP Physics I
AP Psychology
Biology 1 Honors
Biology 1
Biology 2 Honors
Calculus Honors
Chemistry 1
Chemistry Honors
Economics
Economics Honors

Entrepreneurship
Environmental Science
Essentials of Technology
Forensic Science
Forensic Science Honors
Foundations in Algebra
Fundamentals of Web Page Design & Development 1
Fundamentals of Computing
Geometry
Geometry Honors
Health Science 1
Health Science 2
Health Science 3 Honors
Health Science, Work-based
Intermediate Algebra
Marine Science
Marine Science Honors
Medical Terminology
Personal Finance
Physical Science
Physical Science Honors
Physics Honors
PLTW Introduction to Engineering Design Honors
Precalculus Honors
Probability and Statistics
Probability and Statistics Honors
Psychology

Social Media in Business
Sports Medicine 1
Sports Medicine 2
Sports Medicine 3
Sports Medicine Work-based
Technical Scholars Welding Program

New Courses 2020-21:

AP Statistics
PLTW Computer Science Principles Honors
PLTW Principles of Engineering Honors

Note: Online and dual-enrollment STEM courses are also offered.

NMBHS

Algebra 1
Algebra 1 Honors
Algebra 2
Algebra 2 Honors
Anatomy and Physiology
AP Calculus (AB)
AP Statistics
Biology 1 Honors
Biology 1
Biology 2 Honors
Calculus Honors
Chemistry 1
Chemistry Honors
Digital Media Marketing
Digital Multimedia
Economics
Economics Honors
Entrepreneurship
Environmental Science
Foods and Nutrition
Fundamentals of Web Page Design & Development 1
Fundamentals of Computing
Geometry
Geometry Honors
Google Applications
Marine Science

Physical Science
Physical Science Honors
Physics Honors
PLTW Intro to Engineering Design Honors
Precalculus
Precalculus Honors
Probability and Statistics
Probability and Statistics Honors
Psychology
Science Research 1
Sports & Entertainment and Marketing 1
Technical Scholars Welding Program

New Courses 2020-21:

AP Environmental Science
PLTW Principles of Biomedical Science H
PLTW Computer Science Principles H
PLTW Principles of Engineering Honors
Foundations in Algebra
Intermediate Algebra
Medical Terminology
Health Science 1

Note: Online and dual-enrollment STEM courses are also offered.

SA

Algebra 2 Honors
Algebra 3 Honors
AP Biology
AP Biology Seminar Honors
AP Calculus BC
AP Calculus AB Seminar
AP Calculus AB
AP Capstone Research AP
AP Capstone Research Honors
AP Capstone Seminar AP
AP Capstone Seminar Honors
AP Chemistry
AP Chemistry Seminar Honors
AP Environmental Science
AP Environmental Science Seminar Honors
AP Statistics
AP Statistics Seminar Honors
BIOL 242 Anatomy and Physiology II
Biology 1 Honors
Chemistry Honors

CSCI 120 Introduction to Web Interface Development
CSCI 130 Introduction to Computer Science
CSCI 211 Computer Infrastructure
Earth Science Honors
ECON 110 Consumer Economics
Economics Honors
ENGR 101 Introduction to Engineering
ENGR 201 Engineering Problem Solving
INTEL 200 Intro to Intel & Nat Sec
MATH 220 Proofs and Problem Solving
MATH 320 Elem Differential Equations
MATH 344 Linear Algebra 1
MSCI 111 Introduction to Marine Science
PHYS 211 Essentials of Physics I
Precalculus Honors
STAT 317 Nonparametric Statistics Methods

New Courses 2020-21:

Additional STEM courses available through CCU and online.

SHS

Agriculture Science Technology
Algebra 1
Algebra 1 Honors
Algebra 1 Seminar
Algebra 2
Algebra 2 Honors
Algebra 3
Anatomy and Physiology
AP Biology
AP Calculus (BC)
AP Calculus AB Seminar
AP Calculus(AB)
AP Chemistry
AP Physics I
AP Psychology
AP Statistics
Biology 1 Honors
Biology 1
Biology 2
Building Construction Cluster 1
Building Construction Cluster 2
Building Construction Cluster 3
Building Construction Cluster 4
Calculus Honors
Chemistry 1
Chemistry Honors
Computer Programming 1

Economics
Economics Honors
Environmental Science
Forensic Science
Foundations in Algebra
Foundations in Algebra Seminar
Fund of Web Page Design & Development 1
Fundamentals of Computing
Game Design and Development
Geometry
Geometry Honors
Golf Course Technology
Health Science 1
IB Biology High Level-1
IB Mathematical Studies Standard Level
IB Physics Standard Level
IB Psychology Standard Level
Intermediate Algebra
Introduction to Horticulture
Landscape Technology
Marine Science
Medical Terminology
Personal Finance
Physical Science
Physical Science Honors
Physics
Physics Honors
PLTW Principles of Biomedical Sciences Honors
Precalculus

Precalculus Honors
Probability and Statistics
Probability and Statistics Honors
Psychology
Sports & Entertainment and Marketing 1
Sports and Entertainment Management
Sports Medicine 1
Sports Medicine 2
Sports Turf Management
Sociology
Technical Scholars Welding Program
Turf and Lawn Management

New Course 2020-21:

PLTW Introduction to Engineering and Design Honors

Note: Online and dual-enrollment STEM courses are also offered.

SJHS

Accounting 1
Algebra 1
Algebra 1 Honors
Algebra 1 Seminar
Algebra 2
Algebra 2 Honors
Algebra 3
Anatomy and Physiology
Anatomy and Physiology Honors
AP Biology
AP Calculus(AB)
AP Environmental Science
AP Environmental Science Seminar Honors
AP Macroeconomics
AP Physics I
AP Principles of Computer Science
AP Psychology
AP Statistics
Architect Design 1
Architect Design 2
Banking Services
Biology 1 Honors
Biology 1
Biology 2 Honors
Business Finance
Calculus Honors
Carpentry 1

Carpentry 2
Chemistry 1
Chemistry Honors
Computer Forensics
Computer Programming 1
Computer Programming 2
Digital Desktop Publishing
Digital Publication Design
Economics
Economics Honors
Emergency Medical Services 1
Emergency Medical Services 2
Emergency Medical Services 3
Essentials of Technology
Forensic Science
Forensic Science Honors
Foundations in Algebra
Foundations in Algebra Seminar
Foundations of Animation
Fund of Web Page Design & Development 1
Fundamentals of Computing
Game Design and Development
Geometry
Geometry Honors
Health Science 1
Health Science 2
Health Science 3
Health Science, Work-based Credit
Image Editing 1

Intermediate Algebra
Marine Science
Marine Science Honors
Mechanical Design 1
Mechanical Design 2
Medical Terminology
Personal Finance
Physical Science
Physics Honors
PLTW Computer Science Essentials Honors
Precalculus Honors
Probability and Statistics
Probability and Statistics Honors
Psychology
Psychology Honors
Sports & Entertainment and Marketing 1
Sports Medicine 1
Sports Medicine 2
Sports Medicine Work Based
Technical Scholars Welding Program
Virtual Enterprise 1
Virtual Enterprise 2
Virtual Enterprise 3 Honors

New Course 2020-21:

PLTW Introduction to Engineering and Design Honors

Note: Online and dual-enrollment STEM courses are also offered.