



COLORADO SPRINGS SCHOOL DISTRICT 11
Achievement, Learning, & Leadership

NEW COURSE
REQUEST FOR APPROVAL
FALL 2020



COLORADO SPRINGS SCHOOL DISTRICT 11
Achievement, Learning & Leadership

**NEW SECONDARY COURSE
REQUEST FOR APPROVAL
FALL 2020**

MIDDLE SCHOOL LEVEL

Course Name: Algebra II 6-8 Honors

Course Code: MAM.ALGIH

State Course Code: 02056

Subject/Department: Mathematics

Course Length: Four (4) Quarters

Grade: 6-8

Prerequisite: Geometry

Credits per Semester: One (1) Algebra (AG) or Mathematics (MA) or Elective (EL)

Course Description: All of the concepts of Algebra I is reinforced through application in new situations. Topics in this course include the algebraic, numeric & graphical study of functions & systems of functions (polynomial, rational, radical, exponential, logarithmic & trigonometric), transformations of functions, multi-step contextual problem solving & modeling with functions, trigonometric values in the unit circle, complex numbers, probability of compound events (independence & conditional probability), & statistical analysis & decision-making including use of the normal distribution. Graphing technology is required for this course.



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NEW SECONDARY COURSE
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MIDDLE SCHOOL LEVEL

Course Name: Pre-Calculus 6-8 Honors

Course Code: MAM.PRCALH

State Course Code: 02110

Subject/Department: Mathematics

Course Length: Four (4) Quarters

Grade: 6-8

Prerequisite: Algebra II

Credits per Semester: One (1) Algebra (AG) or Mathematics (MA) or Elective (EL)

Course Description: This course offers an analytical & cohesive study of concepts introduced in previous courses & introduces new topics such as functions, circular trigonometry, vectors, analytic geometry, & probability. Theory & rigor are stressed. A special project may be required. Graphing calculators are required for this course.



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**NEW SECONDARY COURSE
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HIGH SCHOOL LEVEL

Course Name: Design Seminar

Course Code: CF.DESSEM

State Course Code: 05193

Subject/Department: PW/CT

Course Length: One (1) Semester

Grade: 9-12

Prerequisite: None

Credits per Semester: One (1) Practical Arts (2020) or Postsecondary Workforce Readiness (2021+)

Course Description: This course will give students an introduction to the elements and principles of design, as seen in Interior Design, Fashion Design, Publishing, and a variety of other fields. In addition, it will introduce students to the many careers that require design and allow them to analyze their own career pathways to determine where design might fit. This course is recommended as an introduction to the fashion and interior design pathway.



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NEW SECONDARY COURSE
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HIGH SCHOOL LEVEL

Course Name: Bicycle Technology 1A; Bicycle Technology 1B; Bicycle Technology 2A;
Bicycle Technology 2B;

Course Code: IT.OUTBT1A; IT.OUTBT2A; IT.OUTBT3A; IT.OUTBT4A;

State Course Code: 20001

Subject/Department: PW/CT

Course Length: One (1) Semester

Grade: 9-12

Prerequisite: None

Credits per Semester: Required Credit

Course Description: This one-year course (two semesters) is the first stage of a two-year sequence designed to introduce and excite students about career pathways within the bicycle industry and prepare them for entry-level positions as bicycle technicians or retail associates. Skills are developed and assessed by a combination of hands-on tests, written assessments, presentations, and project-based learning. This course uses some of the NGSS standards as performance criteria. Students will be awarded the Bicycle Technology Level 1 industry endorsed certificate by establishing career readiness skills in combination with the professional technical skill standards.



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NEW SECONDARY COURSE
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HIGH SCHOOL LEVEL

Course Name: Engineering Essentials 1H; Engineering Essentials 2H

Course Code: PLTW.EE1H; PLTW.EE2H

State Course Code: 21017

Subject/Department: PW/CT

Course Length: One (1) Semester

Grade: 9-12

Prerequisite: None

Credits per Semester: One (1) Project Lead The Way

Course Description: Engineering Essentials is a full-year course designed to be a high school student's first exposure to the PLTW Engineering program and is appropriate for students in grades 9-12. In Engineering Essentials, students explore the work of engineers and their role in the design and development of solutions to real-world problems.

The course introduces students to engineering concepts that are applicable across multiple engineering disciplines and empowers them to build technical skills through the use of a variety of engineering tools, such as geographic information systems (GIS), 3-D solid modeling software, and prototyping equipment. Students learn and apply the engineering design process to develop mechanical, electronic, process, and logistical solutions to relevant problems across a variety of industry sectors, including health care, public service, and product development and manufacturing.



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NEW SECONDARY COURSE
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ADULT AND FAMILY EDUCATION

Course Name: Early Childhood Education Foundations

Course Code: AFE

State Course Code: 19052

Subject/Department: PW/CT

Course Length: One (1) Semester

Grade: 9-12 / Adult

Prerequisite: None

Credits per Semester: 0 – non-credit

Course Description: This is a hybrid course in Early Childhood Education comprised of both classroom learning and pre-internship experience designed for second language speakers with ECE employment or training goals. It provides contextualized practice for high intermediate and advanced language learners in the integrated skills for academic reading, writing, listening, speaking, pronunciation, vocabulary, and grammar in child development. It gives practical assignments to develop competence in providing quality childcare.