



COLORADO SPRINGS SCHOOL DISTRICT 11  
**Achievement, Learning, & Leadership**

**NEW COURSE**  
**REQUEST FOR APPROVAL**  
**FALL 2018**



COLORADO SPRINGS SCHOOL DISTRICT 11  
Instruction, Curriculum, and Student Services

**NEW COURSE**  
REQUEST FOR APPROVAL  
FALL 2018

**ELEMENTARY SCHOOL LEVEL**

Course Name: Elementary STEM

Course Code: ELEM.STEM

State Course Code: N/A

Subject/Department: Science

Course Length: Four (4) Quarters

Grade: K-5

Prerequisite: None

Credits per Semester: N/A

Course Description: Elementary STEM provides students with an interdisciplinary approach to learning that emphasizes real-world context in the areas of science, technology, engineering, and mathematics. Students will make connections between their learning and the world around them while developing STEM-related practices such as asking questions, defining problems, constructing explanations and designing solutions. Students will engage in a variety of inquiry-based, hands-on, discussions, activities, and projects.



**COLORADO SPRINGS SCHOOL DISTRICT 11**  
**Instruction, Curriculum, and Student Services**

**NEW SECONDARY COURSE**  
**REQUEST FOR APPROVAL**  
**FALL 2018**

**HIGH SCHOOL LEVEL**

Course Name: IB Math Analysis Higher Level 1, 2, 3, 4

Course Code: MA.IBAN1HL, MA.IBAN2HL, MA.IBAN3HL, MA.IBAN4HL

State Course Code: 02132

Subject/Department: Mathematics/Mathematics

Course Length: Four (4) Semesters

Grade: 11-12

Prerequisite: IBMYP Advanced Algebra

Credits per Semester: One (1) Mathematics

Course Description: This four-semester course at the Higher Level is intended for students who wish to pursue studies in post-secondary mathematics or in subjects that rely significantly on mathematical content. It is for students who enjoy developing mathematical arguments, conducting mathematical problem solving, and exploring real and abstract applications both with and without technology. Topics will include sequences and series, complex number, matrices, functions, trigonometry and circular functions, vectors, graph theory, probability and statistics, differential and integral calculus.



**COLORADO SPRINGS SCHOOL DISTRICT 11**  
**Instruction, Curriculum, and Student Services**

**NEW SECONDARY COURSE**  
**REQUEST FOR APPROVAL**  
**FALL 2018**

**HIGH SCHOOL LEVEL**

Course Name: IB Math Analysis Standard Level 1, 2, 3, 4

Course Code: MA.IBAN1SL, MA.IBAN2SL, MA.IBAN3SL, MA.IBAN4SL

State Course Code: 02132

Subject/Department: Mathematics/Mathematics

Course Length: Four (4) Semesters

Grade: 11-12

Prerequisite: IBMYP Advanced Algebra

Credits per Semester: One (1) Mathematics

Course Description: This four-semester course at the Standard Level is intended for students who wish to pursue studies in post-secondary mathematics or in subjects that rely significantly on mathematical content. It is for students who enjoy developing mathematical arguments, conducting mathematical problem solving, and exploring real and abstract applications both with and without technology. Topics will include sequences and series, complex number, functions, trigonometry and circular functions, probability and statistics, differential and integral calculus.



**COLORADO SPRINGS SCHOOL DISTRICT 11**  
**Instruction, Curriculum, and Student Services**

**NEW SECONDARY COURSE**  
**REQUEST FOR APPROVAL**  
**FALL 2018**

**HIGH SCHOOL LEVEL**

Course Name: IB Math Applications Standard Level 1, 2

Course Code: MA.IBAP1SL, MA.IBAP2SL

State Course Code: 02132

Subject/Department: Mathematics/Mathematics

Course Length: Two (2) Semesters

Grade: 11-12

Prerequisite: IBMYP Advanced Algebra

Credits per Semester: One (1) Mathematics

Course Description: This two-semester course at the Standard Level is appropriate for students who are interested in developing their mathematics for describing our world, solving practical problems, and harnessing the power of technology alongside exploring mathematical models. Students taking this course will be those who enjoy mathematics best when it is studied in a practical context. Topics will include mathematical modeling with a variety of functions (e.g. polynomial, exponential), trigonometry, probability, and statistics.