



Mountain Range High School
 12500 Huron Street • Westminster, CO 80234
 Office: (720) 972-6300 • Fax: (720) 972-6529
<http://www.mountainrange.adams12.org>



School Year	Mountain Range High School	Teacher Name	James hock
Office	North office side	Website	https://mountainrange.adams12.org
Phone	720-972-6300	Room	C140
Email Address	James.r.hock@adams12.org		
Course Name		AP Computer Science Principles	
Course Description		<p>The Mobile Computer Science Principles course provides an introduction to the basic principles of computer science (CS) from the perspective of mobile computing, including programming in App Inventor, a graphical programming language for Android mobile devices. The lessons and materials used by students incorporate programming while also integrating all other AP CSP big ideas: creativity, abstraction, data and information, algorithms, the internet and global impact. The curriculum engages students and supports the development of problem solving skills honing in on the computational thinking practices as indicated in the AP CSP curriculum framework. Students learn to create socially useful computational artifacts using App Inventor as well as connect computing and learn about abstracting as they develop and analyze their programs. The curriculum also emphasizes communication and collaboration in a project-based approach and classroom environment. This course involves a strong writing component. Students will maintain a portfolio of their work, which will include several performance tasks in the areas of programming and the impact of computing technology.</p>	
Unit of Study		Content Standards/Grade Level Expectations	
The Internet		This unit explores the technical challenges and questions that arise from the need to represent digital information in computers and transfer it between people and computational devices. The unit then explores the structure and design of the internet and the implications of those design decisions.	
Digital Information		This unit further explores the ways that digital information is encoded, represented and manipulated. Being able to digitally manipulate data, visualize it, and identify patterns, trends and possible meanings are important practical skills that computer scientists do every day. Understanding where data comes from, having intuitions about what could be learned or extracted from it, and being able to use computational tools to manipulate data and communicate about it are the primary skills addressed in the unit.	
Intro to Programming		This unit introduces the foundational concepts of computer programming, which unlocks the ability to make rich, interactive apps. This course uses JavaScript as the programming language, and App Lab as the programming environment to build apps, but the concepts learned in these lessons span all programming languages and tools.	
Big Data and Privacy		The data-rich world we live in introduces many complex questions related to public policy, law, ethics and societal impact. The goals of this unit are to develop a well-rounded and balanced view about data in the world, including the positive and negative effects of it, and to understand the basics of how and why modern encryption works.	
Building Apps		This unit continues the introduction of foundational concepts of computer programming, which unlocks the ability to make rich, interactive apps. This course uses JavaScript as the programming language, and App Lab as the programming environment to build apps, but the concepts learned in these lessons span all programming languages and tools.	



Mountain Range High School
 12500 Huron Street • Westminster, CO 80234
 Office: (720) 972-6300 • Fax: (720) 972-6529
<http://www.mountainrange.adams12.org>



Assessment/Practice Proficiency Levels	
4	Advanced Understanding of the Standard
3	Meets the Standard
2	Approaches the Standard
1	Does not Meet the Standard

Course Grade Scale	
A	89.5 - 100
B	79.5 – 89.4
C	69.5 – 79.4
D	59.5 – 69.4
F	0 – 59.4

Grade Reporting Criteria/Weights	
Content	40%
Communication	25%
21st Century Workplace	25%
Practice	10%
Grades are based on achievement of Content Standards and Grade Level Expectations. *Weekly progress grades are posted at https://ic.adasm12.org/campus/portal/adams12.isp	

General Expectations
<ul style="list-style-type: none"> Grades are based upon the demonstration of proficiency on units associated within specific grade reporting criteria. Assessment: Assessments are a means to determine a student’s mastery and understanding of information, skills, concepts, or processes. Practice: Practice includes opportunities for students to receive clear, specific, and timely feedback as they are developing knowledge and skills, prior to Assessments. Assessments will be graded based on teacher/district/state rubrics.

Class Expectations
<p>Missing or incomplete assignments/assessments for this course: Superintendent Policies 6280 Homework and 6281 Make-Up Work will be followed for this course. They state that it is the student’s responsibility to request and obtain missing work. When a student has an excused absence, the student has the same number of days they were absent plus one day to make up assignments. Students who are unexcused may not be able to receive feedback from Practice prior to required Assessments.</p>