



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



<b>Course Name</b>		AP Calculus	
<b>Course Description</b>		AP Calculus provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and includes the following topics: elementary functions, properties of functions and their graphs, limits and continuity, differential calculus (including the definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems), and integral calculus (including anti-derivatives and the definite integral). The purpose of the course is to prepare students to take the AP Calculus exam in the spring of the year.	
<b>Unit of Study</b>	<b>Content Standards/Grade Level Expectations</b>	<b>Approximate Time Spent</b>	<b>Targeted Date of Assessment</b>
1	Pre-Calculus, Trigonometry, Functions	1 week	1 <sup>st</sup> Semester
2	Limits and Continuity	4 weeks	1 <sup>st</sup> Semester
3	Definition of the Derivative & Derivative Rules	6 weeks	1 <sup>st</sup> Semester
4	Applications of the Derivative	4 weeks	1 <sup>st</sup> / 2 <sup>nd</sup> Semester
5	Definition of the Integral, Riemann Sums	4 weeks	2 <sup>nd</sup> Semester
6	Differential Equations and Modeling	3 weeks	2 <sup>nd</sup> Semester
7	Applications of the Integral	3 weeks	2 <sup>nd</sup> Semester
8	AP Exam Preparation	4 weeks	2 <sup>nd</sup> Semester

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

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

<b>Grade Reporting Criteria/Weights</b>		
	<b>Semester 1</b>	<b>Semester 2</b>
<b>Limits and Continuity</b>	<b>20%</b>	<b>0%</b>
<b>Derivatives</b>	<b>40%</b>	<b>10%</b>
<b>Integrals</b>	<b>0%</b>	<b>40%</b>
<b>AP Exam Preparation</b>	<b>0%</b>	<b>10%</b>
<b>Practice</b>	<b>10%</b>	<b>10%</b>
<b>Procedural Fluency</b>	<b>10%</b>	<b>10%</b>
<b>Final Exam</b>	<b>20%</b>	<b>20%</b>

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>



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### General Expectations

- 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. Practice may be scored as satisfactory (**S**), incomplete (**I**), unsatisfactory (**U**) or missing (**M**).
- **Procedural Fluency:** Is a measurement of the basic skills necessary for success in this class.
- Assessments will be graded based on teacher/district/state rubrics.

### Class Expectations

**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.