



**Northglenn High School**  
 601 West 100<sup>th</sup> Place • Northglenn, CO 80260  
 Office: (720) 972-4600 • Fax: (720) 972-4739  
<http://www.northglennhs.adams12.org>



<b>School Year</b>	2016-2017	<b>Teacher Name</b>	Jennifer Braun Paliszewski
<b>Room/Office</b>	room 230 (room 101)	<b>Website</b>	Braunpaliszewski.weebly.com
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<b>PBL Title</b>	TBD	<b>Panel Date</b>	TBD

<b>Course Name</b>	<b>AP Computer Science A</b>	
<b>Course Description</b>	The AP Computer Science A course is an introductory course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. In addition, the responsible use of these systems is an integral part of the course	
<b>Course Text</b>	Online resources to be found on the course website	
<b>Unit of Study</b>	<b>Grade Level Expectations/Content Standards</b>	<b>Approximate Percent of Time Spent</b>
Part I Object-Oriented Program Design	<ul style="list-style-type: none"> <li>• Program design</li> <li>• Class design</li> </ul>	20%
Part II Program Implementation	<ul style="list-style-type: none"> <li>• Implementation techniques</li> <li>• Programming constructs</li> <li>• Java library classes</li> </ul>	10%
Part III Program Analysis	<ul style="list-style-type: none"> <li>• Testing</li> <li>• Debugging</li> <li>• Understand and modify existing code</li> <li>• Extend existing code using inheritance</li> <li>• Understand error handling</li> <li>• Reason about programs</li> <li>• Analysis of algorithms</li> <li>• Numerical representations and limits</li> </ul>	10%
Part IV Standard Data Structures	<ul style="list-style-type: none"> <li>• Simple data types</li> <li>• Classes</li> <li>• Lists</li> <li>• Arrays</li> </ul>	15%
Part V Standard Algorithms	<ul style="list-style-type: none"> <li>• Operations on data structures (traversals, insertions, deletions)</li> <li>• Searching</li> <li>• Sorting</li> </ul>	15%
Part VI Computing in Context	<ul style="list-style-type: none"> <li>• System reliability</li> <li>• Privacy</li> <li>• Legal issues and intellectual property</li> <li>• Social and ethical ramifications of computer use</li> </ul>	15%

<b>Grading Scale</b>		<b>Grade Percentages/Weights</b>	
<b>A</b>	90-100	<b>Multiple Choice Summative Assessments</b>	<b>80%</b>
<b>B</b>	80-89	<b>Formative Assessments &amp; Projects</b>	<b>20%</b>
<b>C</b>	70-79	*Weekly progress grades are posted at <a href="https://ic.adams12.org/campus/portal/adams12.isp">https://ic.adams12.org/campus/portal/adams12.isp</a>	
<b>D</b>	60-69		
<b>F</b>	59 or below		



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#### General Expectations

- Grades are based upon the demonstration of proficiency on units associated with a standard given during each formative or summative assessment. Formative grades in addition to summative unit assessments will be used to holistically determine your grade.
- Assessments will be graded based on teacher/district/state rubrics.
- On group projects, students will receive a grade for individual work and a group grade.
- Grades are based on achievement of Content Standards and Grade Level Expectations.

#### AP Preparedness Expectations

##### Mock Exam Participation

- A mock exam will be given in the spring that will be graded by a team of AP Stats teachers. The intent of this exam is to have a similar testing environment as the AP exam and to give accurate feedback on content that needs to be reviewed before the actual exam is given.
- The expectation is that **ALL** students take this – during the time frame provided by the school. A formative grade will be given for attendance and participation in the mock exam.

##### Structured Tutorials & Help Sessions

- The students will be provided with many opportunities for additional learning and review of important concepts. There will Saturday sessions in the spring and at least 1 hour per week provided by the instructor during each week of school. Attendance at these sessions has been linked to success on the exam. Students are expected to attend at least 10 hours of these additional sessions. A formative score will be given to reflect attendance and participation in these sessions.

#### Class Expectations

##### Additional Help:

- I will be available in room 101 Thursdays during lunch most days to give extra help. Please let me know if you plan on stopping by. If those times do not work, please set an appointment.

##### Materials and Supplies Needed Daily

- Paper and pencil.

##### Accommodations

- A variety of teaching techniques are used to meet the diverse needs of students. I am available by phone or appointment to discuss concerns or needs of students with special needs.

##### Assessments Used To Evaluate Student Progress

- Assignments, Investigations, Observations, Participation, Presentations, Projects, Quizzes, and Tests

##### Motivation Used

- A variety of hands-on techniques, investigations, real-world contexts and group work that engage and stimulate students to think about math are a part of this curriculum.
- Students are encouraged to be engaged and motivated in the completion of their assignments.

##### Make Up Work

- Superintendent Policies 6280 Homework and 6281 Make-Up Work, will be followed for this course. Daily homework not due to an excused absence will not be accepted for credit.

#### Student Behavior Expectations

- Electronics (cell phones, game systems, tablets, etc.) are to be turned off and stored during class.
- No food or drink (except water) in class.
- You are expected to be in class, on time, every day. Tardiness will impact your ability to receive participation points.
- Engagement in class activities is vital, be prepared to take risks and try new things.