The mission of Alpharetta High School's Business and Computer Science Department is to provide a rigorous, career-focused education integrating academic and technical standards while preparing students for the global economy.

Purpose of Course:
Welcome! AP® Computer Science A is both a college-prep course for potential computer science majors and a foundation course for students planning to study in other technical fields such as engineering, physics, chemistry, and geology. The course emphasizes programming methodology, procedural abstraction, and in-depth study of algorithms, data structures, and data abstractions, as well as a detailed examination of several labs designed by the College Board. Instruction includes preparation for the AP Computer Science A Exam. In teaching this course, my reward comes when students can apply the programming tools they have learned to real-life examples on their own. Computer science is more than just programming. Students should leave my class with a clear understanding of Java and the ability to adapt to any new programming language that they are taught in college. I want them to have the confidence to tackle any problem-solving obstacles they encounter.

Prerequisite(s):
Grades: 10 - 12
Rising 10th grader: GSE Acc. Geom B/Alg. II H > 92
Rising 11th grader: GSE Alg. II H > 95 or
GSE Acc. Geometry B/Alg. II > 92
Rising 12th grader: GSE Pre-Cal H > 95 or
GSE Acc. Pre-Cal > 92
Must have taken all honors or Accelerated Honors math classes prior to AP Computer Science A

Materials:
2) Supplies: Students should have a two inch ring binder dedicated to the course with dividers and paper. A small inexpensive flash drive and some dry erase markers would be extremely beneficial to the students as well.

Course Objectives: Upon completion of this course students will be able to understand:

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Unit Binary &amp; Base Conversions</td>
<td></td>
</tr>
<tr>
<td>Ch 1 Computer Systems &amp; Programming Basics</td>
<td>Ch 6 2 Dimensional Arrays, ArrayLists, Searching &amp; Sorting</td>
</tr>
<tr>
<td>Ch 2 Objects and Primitive Data</td>
<td>Ch 5 Enhancing Classes</td>
</tr>
<tr>
<td>Ch 3 Program Statements</td>
<td>Ch 7 Inheritance/Polymorphism</td>
</tr>
<tr>
<td>Ch 4 Writing Classes</td>
<td>Ch 8 Recursion</td>
</tr>
<tr>
<td>Ch 6 One Dimensional Arrays</td>
<td>AP Test Preparation</td>
</tr>
</tbody>
</table>

Career Technology Related Careers:
Programmer  Chief Information Officer  Game Designer
Network Engineer  Consultant  Computer System Analyst
System Administrator  Software Engineer

AP Exam:
Per Fulton County and College Board policy, any student that does not take their AP exam FOR ANY EXCUSED OR UNEXCUSED REASON is responsible for the returned/unused exam fee of $13. Any student that is passing their AP class, even if it is with a 70%, MUST take their AP exam.

The Computer Science A exam is given in May. In 2018, the test was made up of two sections. 50% is made up of 40 multiple choice questions (90 minutes). 50% is four free response questions (90 minutes)
The mission of Alpharetta High School's Business and Computer Science Department is to provide a rigorous, career-focused education integrating academic and technical standards while preparing students for the global economy.
HOME ACCESS CENTER
Alpharetta High School has a program called Home Access Center that allows you to view your child’s academic progress and attendance on-line. You may contact Carolyn Vezeau at 470-254-7640 X47646 or email her at vezeauc@fultonschools.org for more information. All parents must come in to the school and show picture identification in order to obtain login information and a password to your account. Additional information can be found in the Handbook for Students and Parents, page 39.

LOST/DAMAGED BOOK POLICY
Students are financially responsible for all books issued by Alpharetta High School. Textbooks may not be left in classrooms, and teachers are not responsible for students’ books once books have been issued to the student. The copy issued to the student must be turned in at the end of the course. Students will not receive credit for turning in another student’s book, and students may not turn in replacement books. The cost of replacement will be assigned to any student that fails to turn in the exact book she/he was issued and/or to any student that turns in a damaged book. If a student is issued a damaged book (i.e. broken binding, torn pages, water damage, writing, etc…), then the book must be brought to room 1330 for a replacement book or to document the damage. There is a two week grace period for students to document damage before the student will be held accountable.

MAKE-UP WORK POLICY
Students should read and understand the Make-Up Policies as published in the Handbook for Students and Parents, pages 73-74. This policy governs all make-up work for all classes.

Final Exams:
Final exams will not be administered early; thus, students should make every effort to be present on the dates of the final exams.

ACADEMIC HONESTY
In an effort to encourage good study habits, fair competition, and positive development in the area of academics, the Alpharetta faculty supports a strong policy for academic honesty. Students should read and understand the school’s Academic Honesty Policy as published in the Handbook for Students and Parents (pages 56-60). Students are responsible for adhering to these policies at all times and on all assignments, assessments, projects, or tasks.

In order to reinforce Alpharetta High School’s commitment to academic honesty and the ideals of being a RICH Raider, students will be expected to write or sign an Academic Honesty pledge prior to completing an individual assignment.

The AHS Academic Honesty pledge states: As a RICH Raider, I, ___ (student name)__, pledge that I have neither given nor received assistance on this assignment.

R.I.S.E./RECOVERY
R.I.S.E. stands for Re-teaching/Instructional Support and Enrichment. It is dedicated time made by each teacher on a weekly basis for students to receive additional support to help build to content mastery. The AHS Recovery Policy involves opportunities designed to allow students to recover from a low or failing cumulative average will be allowed when all work required to date has been completed and the student has demonstrated a legitimate effort to meet all course requirements including attendance. Students should read and understand the R.I.S.E. and Recovery Policies as published in the Handbook for Students and Parents, pages 72-73.

AHS DEPARTMENT R.I.S.E. SCHEDULE

<table>
<thead>
<tr>
<th>SCHOOL YEAR</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-2018</td>
<td>Math</td>
<td>Social Studies</td>
<td>Electives</td>
<td>Lang Arts</td>
<td>Science</td>
</tr>
</tbody>
</table>

COMMUNICATION WITH FACULTY
Due to limited access to phone during the day, please email faculty members with questions and concerns, so they answer inquiries and resolve issues. Parents and guardians may arrange individual teacher-parent conferences teachers; however, if a conference with more than one teacher is desired, the student’s counselor can help coordinate the meeting. Parents must meet face-to-face with a teacher before requesting a meeting with the department chair; parents must meet face-to-face with a department chair and teacher before requesting a meeting with the department administrator. Additional guidelines can be found in the Handbook for Students and Parents on pages 38-41.

The mission of Alpharetta High School’s Business and Computer Science Department is to provide a rigorous, career-focused education integrating academic and technical standards while preparing students for the global economy.
The mission of Alpharetta High School’s Business and Computer Science Department is to provide a rigorous, career-focused education integrating academic and technical standards while preparing students for the global economy.

By signing below, the student and parent acknowledge that they have read this syllabus and agree to follow the policies herein. The complete syllabus is available at: https://sites.google.com/site/ahstomhatcher/ or http://hatcherahs.weebly.com/

AP Computer Science A
Mr. Hatcher
2017/18

Date _________________________  Date __________________________

__________________________________________  ______________________________________
Parent/Guardian Name Please Print  Student Name Please Print

__________________________________________  ______________________________________
Parent/Guardian Signature  Student Signature

__________________________________________  ______________________________________
Parent Email Address  Student Email Address

* Please print your email address, if you have one, as this is oftentimes the easiest way to contact you regarding your student’s progress in class.

My child □ does □ does not have regular access to a computer with internet capabilities. (Please check that which applies)

I □ do □ do not allow photographs or video taken of my child during classroom activities to be posted in the classroom, or on the school website. (Please check that which applies)