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**Upcoming Events:**

February 28 - March 1, 2005  
Program and Systems Workshop

March 28 - 29, 2005  
AP Test Prep

April 16, 2005  
Student AP Prep Event  
AP Bowl

June 28 - July 1, 2005  
Intermediate Programming and Systems  
Management (4 days)

July 5 - 8 and July 12 - 15, 2005  
Beginning Programming and Systems  
Management (2 weeks)

July 18 - 22, 2005 (1 week)  
College Board Endorsed AP - CS

All courses offered through Georgia Vocation  
Staff Development Consortium  
<http://www.gvsdc.org>

For more information, please visit our website:  
<http://www.cc.gatech.edu/ice>

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## AP COMPUTER SCIENCE INSTRUCTORS

The Georgia Department of Education has a goal to ensure that AP Courses are taught well in every high school.



The Career, Technical, and Agriculture Education Division would like to increase the number of schools offering Programming and Systems Management and AP Computer Science classes.



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INSTITUTE FOR COMPUTING EDUCATION

## Why is it important to offer computer science?

According to the Georgia Department of Labor between 2000-2010:

- Computer Software Engineers, Systems Software, and Computer Software Engineers are among the twenty fastest growing occupations in Georgia.
- Computer and Mathematical Occupations is one of the twenty occupations in Georgia with the most annual openings.
- Computer and Mathematical Occupations is one of the twenty occupations in Georgia with the most total growth.

College and universities have found that:

- Computer Science majors in universities have dropped in recent years.
- With U.S. Labor Department trends showing a 45.93% projected growth in computer science occupations between 2000 and 2010, there will be a shortage of employees if steps are not taken to increase interest in computer science as a major among all students.
- There is a need to increase the interest of computer science careers with female and under-represented groups (African-American, Hispanic, Native American).



## How do you prepare to teach AP Computer Science?

The process for preparing teachers to become AP Computer Science instructors will require at least three years. The following steps are offered as a guideline to school systems that would like to implement a Programming and Software Development Career Pathway and offer AP Computer Science:

1. Choose a teacher (no programming experience necessary).
2. Have the teacher enroll in the two-week Programming and Systems Management Course offered through ICE@GT in the summer.
3. Offer 11.41800 Programming and Systems Management in the school course offerings within the next two years.
  - Depending on the teacher's level of knowledge of programming, some may be ready to begin teaching in the fall after attending the summer workshop. Others may need an additional year to study Java and prepare to teach the course the next year.
4. After the teacher has taught Programming and Systems Management at least one year, they should enroll in the Intermediate Programming and Systems Management course offered through ICE@GT and the College Board endorsed AP course.
5. After teachers have completed these AP workshops, the school is ready to begin offering AP Computer Science.

