

AP COMPUTER SCIENCE A (AP CSA)

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What is AP Computer Science A?

A Gateway to the World of Computer Science

AP Computer Science A is a college-level introductory programming course that teaches students how to design, write, test, and analyze computer programs using Java.

Students develop computational thinking skills while learning how software is created through hands-on programming projects.

AP CSA helps students understand not only how to code, but also how computer scientists think and solve problems.

Why Should Students Learn AP CSA?

🧠 Develop Computational Thinking

- Learn how to solve complex problems step-by-step
- Develop logical reasoning and analytical skills
- Build confidence in tackling challenging tasks

💻 Build Real Programming Skills

- Learn Java, one of the world's most widely used languages
- Write, test, and debug computer programs
- Create solutions to real-world problems

🎓 Prepare for College and Careers

- Experience college-level computer science
- Prepare for the AP CSA examination
- Build a foundation for STEM majors and technology careers

Why Computer Science Matters

Technology is changing every industry.

Computer science skills are valuable in:

- Artificial Intelligence
- Engineering
- Medicine and Healthcare
- Science and Research
- Business and Entrepreneurship
- Software Development

Programming allows you to create technology, not just use technology.

Start Your AP CSA Journey Today!

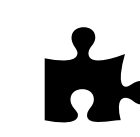
What Will You Learn?

🔗 Java Programming

Students will master:

- Variables, data types, and expressions
- Conditional statements and loops
- Methods and program organization
- Classes and objects
- Object-oriented programming
- Inheritance and software design
- Arrays and ArrayLists
- Searching, sorting, and algorithms

Skills You Will Gain



Problem Solving



Creativity



Innovation

AP CSA students learn to:

- Think like computer scientists
- Design solutions systematically
- Collaborate on programming projects
- Become independent learners

Learn with Professor Guodong Wang

Guodong Wang

Professor of Computer Science

Professor Wang brings more than 15 years of experience teaching programming and Java.

His teaching focuses on:

- Making programming concepts clear and approachable
- Connecting theory with practical applications
- Helping students move from beginners to confident programmers
- Preparing students for future success in computer science

Learn. Code. Innovate.

Discover the power of programming
and become a creator of technology.