

AP[®] Computer Science Principles

About the Advanced Placement Program[®] (AP[®])

The Advanced Placement Program[®] has enabled millions of students to take college-level courses and earn college credit, advanced placement, or both, while still in high school. AP Exams are given each year in May. Students who earn a qualifying score on an AP Exam are typically eligible, in college, to receive credit, placement into advanced courses, or both. Every aspect of AP course and exam development is the result of collaboration between AP teachers and college faculty. They work together to develop AP courses and exams, set scoring standards, and score the exams. College faculty review every AP teacher's course syllabus.

AP Computer Science Program

There are two computer science offerings, and students can take either course in any order or concurrently:

- **AP Computer Science A** focuses on computing skills related to programming in Java.
- **AP Computer Science Principles** provides students with a broad introduction to computer science and how it relates to other fields.

The courses underscore the importance of communicating solutions appropriately and in ways that are relevant to current societal needs. AP Computer Science courses can help address traditional issues of equity, access, and broadening participation in computing while providing a strong and engaging introduction to fundamental areas of the discipline.

AP Computer Science Principles Course Overview

AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

PREREQUISITES

It is recommended that students in the AP Computer Science Principles course have successfully completed a first-year high school algebra course with a strong foundation of basic linear functions, composition of functions, and problem-solving strategies that require multiple approaches and collaborative efforts. In addition, students should be able to use a Cartesian (x, y) coordinate system to represent points on a plane. It is important that students and their advisers understand that any significant computer science course builds upon a foundation of mathematical reasoning that should be acquired before attempting such a course.

Prior computer science experience is not required to take this course.

COMPUTER LANGUAGE

AP Computer Science Principles does not have a designated programming language. Teachers have the flexibility to choose a programming language(s) that is most appropriate for their students to use in the classroom.

AP Computer Science Principles Course Content

The following are the major areas of study, or big ideas, that serve as the foundation of the course, enabling students to create meaningful connections among concepts and develop deeper conceptual understanding:

- **Creative Development:** When developing computing innovations, developers can use a formal, iterative design process or a less rigid process of experimentation, and will encounter phases of investigating and reflecting, designing, prototyping, and testing. Collaboration is an important tool at any phase of development.
- **Data:** Data are central to computing innovations because they communicate initial conditions to programs and represent new knowledge.
- **Algorithms and Programming:** Programmers integrate algorithms and abstraction to create programs for creative purposes and to solve problems.
- **Computing Systems and Networks:** Computer systems and networks are used to transfer data.
- **Impact of Computing:** Computers and computing have revolutionized our lives. To use computing safely and responsibly, we need to be aware of privacy, security, and ethical issues.

Each big idea is broken down into teachable segments called topics.

AP Computer Science Principles Computational Thinking Practices

The following computational thinking practices describe what skills students should develop during the course:

- **Computational Solution Design:** Design and evaluate computational solutions for a purpose.
- **Algorithms and Program Development:** Develop and implement algorithms.
- **Abstraction in Program Development:** Develop programs that incorporate abstractions.
- **Code Analysis:** Evaluate and test algorithms and programs.
- **Computing Innovations:** Investigate computing innovations.
- **Responsible Computing:** Contribute to an inclusive, safe, collaborative, and ethical computing culture.

Ap Computer Science Principles Course Instructor Notes

JG Myers



Ap Computer Science Principles Course Instructor Notes:

Ap Computer Science Principles Course Instructor Notes Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Ap Computer Science Principles Course Instructor Notes**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Ap Computer Science Principles Course Instructor Notes

1. Understanding the eBook Ap Computer Science Principles Course Instructor Notes
 - The Rise of Digital Reading Ap Computer Science Principles Course Instructor Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Computer Science Principles Course Instructor Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Computer Science Principles Course Instructor Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Computer Science Principles Course Instructor Notes
 - Personalized Recommendations
 - Ap Computer Science Principles Course Instructor Notes User Reviews and Ratings
 - Ap Computer Science Principles Course Instructor Notes and Bestseller Lists

5. Accessing Ap Computer Science Principles Course Instructor Notes Free and Paid eBooks
 - Ap Computer Science Principles Course Instructor Notes Public Domain eBooks
 - Ap Computer Science Principles Course Instructor Notes eBook Subscription Services
 - Ap Computer Science Principles Course Instructor Notes Budget-Friendly Options
6. Navigating Ap Computer Science Principles Course Instructor Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Computer Science Principles Course Instructor Notes Compatibility with Devices
 - Ap Computer Science Principles Course Instructor Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Computer Science Principles Course Instructor Notes
 - Highlighting and Note-Taking Ap Computer Science Principles Course Instructor Notes
 - Interactive Elements Ap Computer Science Principles Course Instructor Notes
8. Staying Engaged with Ap Computer Science Principles Course Instructor Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Computer Science Principles Course Instructor Notes
9. Balancing eBooks and Physical Books Ap Computer Science Principles Course Instructor Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Computer Science Principles Course Instructor Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Computer Science Principles Course Instructor Notes
 - Setting Reading Goals Ap Computer Science Principles Course Instructor Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Computer Science Principles Course Instructor Notes
 - Fact-Checking eBook Content of Ap Computer Science Principles Course Instructor Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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