

# AP<sup>®</sup> Computer Science Principles

## About the Advanced Placement Program<sup>®</sup> (AP<sup>®</sup>)

The Advanced Placement Program<sup>®</sup> 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

**JS Bruner**



## **Ap Computer Science Principles Course Instructor Notes:**

**Princeton Review AP Computer Science A Prep, 8th Edition** The Princeton Review, 2023-09-12 EVERYTHING YOU NEED TO SCORE A PERFECT 5 Ace the AP Computer Science A Exam with this comprehensive study guide which includes 5 full length practice tests thorough content reviews targeted strategies for every section of the exam and access to online extras Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need for a High Score Fully aligned with the latest College Board standards for AP Computer Science A Comprehensive content review for all test topics including lab requirements Engaging activities to help you critically assess your progress Access to study plans printable resources helpful pre college information and more via your online Student Tools Practice Your Way to Excellence 5 full length practice tests 3 in the book 2 online with detailed answer explanations Comprehension drills in each content review chapter Step by step walk throughs of sample questions *Princeton Review AP Computer Science A Prep, 2023* The Princeton Review, 2022-09-13 Make sure you re studying with the most up to date prep materials Look for the newest edition of this title The Princeton Review AP Computer Science A Prep 8th Edition ISBN 9780593517055 on sale August 2023 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product **Princeton Review AP Computer Science A Prep, 2022** The Princeton Review, 2021-12-14 EVERYTHING YOU NEED TO SCORE A PERFECT 5 Ace the 2022 AP Computer Science A Exam with this comprehensive study guide which includes 4 full length practice tests thorough content reviews targeted strategies for every section of the exam and access to online extras Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need to Know to Help Achieve a High Score Fully aligned with the latest College Board standards for AP Computer Science A Comprehensive content review for all test topics including lab requirements Engaging activities to help you critically assess your progress Access to study plans printable resources helpful pre college information and more via your online Student Tools Practice Your Way to Excellence 4 full length practice tests 3 in the book 1 online with detailed answer explanations Comprehension drills in each content review chapter Step by step walk throughs of sample questions **Resources in Education** ,1999 5 Steps to a 5: AP Computer Science Principles 2023 Julie Schacht Sway, 2022-08-01 AP Teachers 1 Choice Ready to succeed in your AP course and ace your exam Our 5 Steps to a 5 guides explain the tough stuff offer tons of practice and explanations and help you make the most efficient use of your study time 5 Steps to a 5 AP Computer Science Principles is more than a review guide it s a system that has helped thousands of students walk into test day feeling prepared and confident Everything you Need for a 5 3 full length practice tests that align with the latest College Board requirements Hundreds of practice exercises with answer

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*5 Steps to a 5: AP Computer Science Principles 2024 Elite Student Edition* Julie Schacht Sway,2023-07-31 AP Teachers 1 Choice Ready to succeed in your AP course and ace your exam Our 5 Steps to a 5 guides explain the tough stuff offer tons of practice and explanations and help you make the most efficient use of your study time 5 Steps to a 5 AP Computer Science Principles Elite Student Edition is more than a review guide it s a system that has helped thousands of students walk into test day feeling prepared and confident Everything you Need for a 5 3 full length practice tests that align with the latest College Board requirements Hundreds of practice exercises with answer explanations Comprehensive overview of all test topics Proven strategies from seasoned AP educators Why the Elite Edition 200 pages of additional AP content 5 minute daily activities to reinforce critical AP concepts AP educators love this feature for bellringers in the classroom Study on the Go All instructional content in digital format for both computers and mobile devices Interactive practice tests with answer explanations A self guided personalized study plan with daily goals powerful analytics flashcards games and more A Great In class Supplement 5 Steps is an ideal companion to your main AP text Includes an AP Computer Science Principles Teacher s Manual that offers excellent guidance to educators for better use of the 5 Steps resources *5 Steps to a 5: AP Computer Science Principles 2024* Julie Schacht Sway,2023-07-31 AP Teachers 1 Choice Ready to succeed in your AP course and ace your exam Our 5 Steps to a 5 guides explain the tough stuff offer tons of practice and explanations and help you make the most efficient use of your study time 5 Steps to a 5 AP Computer Science Principles is more than a review guide it s a system that has helped thousands of students walk into test day feeling prepared and confident Everything you Need for a 5 3 full length practice tests that align with the latest College Board requirements Hundreds of practice exercises with answer explanations Comprehensive overview of all test topics Proven strategies from seasoned AP educators Study on the Go All instructional content in digital format for both computers and mobile devices Interactive practice tests with answer explanations A self guided personalized study plan with daily goals powerful analytics flashcards games and more A Great In class Supplement 5 Steps is an ideal companion to your main AP text Includes an AP Computer Science Principles Teacher s Manual that offers excellent guidance to educators for better use of the 5 Steps resources *5 Steps to a 5: AP Computer Science Principles, 2nd Edition* Julie Sway,2020-09-25 MATCHES THE LATEST EXAM In this hybrid year let us supplement your AP classroom experience with this easy to follow study guide The immensely popular 5 Steps to a 5 AP Computer Science Principles Second Edition guide has been updated for the 2020 21 school year and now contains 3 full length

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the most important concepts covered in class Access to a robust online platform Comprehensive overview of the AP Computer Science Principles exam format Description of the extensive changes to the course and details about the new Explore Curricular Requirements Abundant examples of the new stimulus type questions Proven strategies on extracting information and confidently answering multiple choice questions New Create Performance Task prompts and best response tactics

*Facilitating Simulations* Elysabeth E. Leigh, Laurie L. Levesque, 2024-06-05 Providing a clear starting point for the effective use of simulations in the classroom this book showcases the unique transition from educator to facilitator Elysabeth E Leigh and Laurie L Levesque present a practical and supportive guide with a strong educational focus ultimately encouraging a greater level of confidence in classroom simulations

Preparing Pre-Service Teachers to Teach Computer Science Chrystalla Mouza, Aman Yadav, Anne Ottenbreit-Leftwich, 2021-05-01 Computer science has emerged as a key driver of innovation in the 21st century Yet preparing teachers to teach computer science or integrate computer science content into K 12 curricula remains an enormous challenge Recent policy reports have suggested the need to prepare future teachers to teach computer science through pre service teacher education programs In order to prepare a generation of teachers who are capable of delivering computer science to students however the field must identify research based examples pedagogical strategies and policies that can facilitate changes in teacher knowledge and practices The purpose of this book is to provide examples that could help guide the design and delivery of effective teacher preparation on the teaching of computer science This book identifies promising pathways pedagogical strategies and policies that will help teacher education faculty and pre service teachers infuse computer science content into their curricula as well as teach stand alone computing courses Specifically the book focuses on pedagogical practices for developing and assessing pre service teacher knowledge of computer science course design models for pre service teachers and discussion of policies that can support the teaching of computer science The primary audience of the book is students and faculty in educational technology educational or cognitive psychology learning theory teacher education curriculum and instruction computer science instructional systems and learning sciences

Computational Thinking in the STEM Disciplines Myint Swe Khine, 2018-08-14 This book covers studies of computational thinking related to linking infusing and embedding computational thinking elements to school curricula teacher education and STEM related subjects Presenting the distinguished and exemplary works by educators and researchers in the field highlighting the contemporary trends and issues creative and unique approaches innovative methods frameworks pedagogies and theoretical and practical aspects in computational thinking A decade ago the notion of computational thinking was introduced by Jeannette Wing and envisioned that computational thinking will be a fundamental skill that complements to reading writing and arithmetic for everyone and represents a universally applicable attitude The computational thinking is considered a thought processes involved in a way of solving problems designing systems and understanding human behaviour Assimilating computational thinking at young

age will assist them to enhance problem solving skills improve logical reasoning and advance analytical ability key attributes to succeed in the 21st century Educators around the world are investing their relentless effort in equipping the young generation with real world skills ready for the demand and challenges of the future It is commonly believed that computational thinking will play a pivotal and dominant role in this endeavour Wide ranging research on and application of computational thinking in education have been emerged in the last ten years This book will document attempts to conduct systematic prodigious and multidisciplinary research in computational thinking and present their findings and accomplishments

*Teaching Computational Thinking in Primary Education* Ozcinar, Huseyin, Wong, Gary, Ozturk, H. Tugba, 2017-10-31 Computational technologies have been impacting human life for years Teaching methods must adapt accordingly to provide the next generation with the necessary knowledge to further advance these human assistive technologies Teaching Computational Thinking in Primary Education is a crucial resource that examines the impact that instructing with a computational focus can have on future learners Highlighting relevant topics that include multifaceted skillsets coding programming methods and digital games this scholarly publication is ideal for educators academicians students and researchers who are interested in discovering how the future of education is being shaped [Helping Kids with Coding For Dummies](#) Camille McCue, Sarah Guthals, 2018-04-18 Help for grown ups new to coding Getting a jump on learning how coding makes technology work is essential to prepare kids for the future Unfortunately many parents teachers and mentors didn't learn the unique logic and language of coding in school Helping Kids with Coding For Dummies comes to the rescue It breaks beginning coding into easy to understand language so you can help a child with coding homework supplement an existing coding curriculum or have fun learning with your favorite kid The demand to have younger students learn coding has increased in recent years as the demand for trained coders has far exceeded the supply of coders Luckily this fun and accessible book makes it a snap to learn the skills necessary to help youngsters develop into proud capable coders Help with coding homework or enhance a coding curriculum Get familiar with coding logic and how to debug programs Complete small projects as you learn coding language Apply math skills to coding If you're a parent teacher or mentor eager to help 8 to 14 year olds learn to speak a coding language like a mini pro this book makes it possible

*Proceedings of Conference on Computers in the Undergraduate Curricula*, 1977 **Research Anthology on Computational Thinking, Programming, and Robotics in the Classroom** Management Association, Information Resources, 2021-07-16 The education system is constantly growing and developing as more ways to teach and learn are implemented into the classroom Recently there has been a growing interest in teaching computational thinking with schools all over the world introducing it to the curriculum due to its ability to allow students to become proficient at problem solving using logic an essential life skill In order to provide the best education possible it is imperative that computational thinking strategies along with programming skills and the use of robotics in the classroom be implemented in order for students to

achieve maximum thought processing skills and computer competencies The Research Anthology on Computational Thinking Programming and Robotics in the Classroom is an all encompassing reference book that discusses how computational thinking programming and robotics can be used in education as well as the benefits and difficulties of implementing these elements into the classroom The book includes strategies for preparing educators to teach computational thinking in the classroom as well as design techniques for incorporating these practices into various levels of school curriculum and within a variety of subjects Covering topics ranging from decomposition to robot learning this book is ideal for educators computer scientists administrators academicians students and anyone interested in learning more about how computational thinking programming and robotics can change the current education system



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