



# CodeHS: Indiana High School Standards

## Computing Ideas



The Computing Ideas course is a first computer science course introducing the basics of programming with Karel the Dog, the basics of designing a web page, and how information and images are represented with computers. Students will learn to code using blocks to drag and drop, but they can switch between blocks and text as desired. Students will create a portfolio on the web of projects they build throughout the course.

With a unique focus on creativity, problem solving and project based learning, Computing Ideas gives students the opportunity to explore several important topics of computing using their own ideas and creativity and develop an interest in computer science that will foster further endeavors in the field.

Course:	Indiana Standards Addressed				
<b>Introduction to Computer Science</b>	ICS-1.1	ICS-2.1	ICS-2.6	ICS-4.2	ICS-5.2
	ICS-1.2	ICS-2.3	ICS-2.9	ICS-4.3	ICS-6.4
	ICS-1.3	ICS-2.4	ICS-3.1	ICS-4.4	
	ICS-1.4	ICS-2.5	ICS-4.1	ICS-4.5	
<b>Computer Science I</b>	CSI-1.3	CSI-3.1	CSI-3.7	CSI-4.3	CSI-5.6
	CSI-1.4	CSI-3.3	CSI-4.1	CSI-4.8	CSI-5.7
	CSI-2.1	CSI-3.6	CSI-4.2	CSI-5.1	CSI-7.6
<b>Computer Science II</b>	CSII-1.2	CSII-2.3	CSII-3.6	CSII-5.7	
	CSII-1.3	CSII-3.1	CSII-4.1	CSII-8.1	
	CSII-1.4	CSII-3.3	CSII-5.1		



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## Web Design




In today's world, web pages are the main medium for sharing ideas and information. Learning to design websites is an incredibly useful skill for any career path.

The CodeHS Web Design course is a project-based course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS, and will create their own live homepages to serve as portfolios of their creations. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi-page websites.

Course:	Indiana Standards Addressed				
Introduction to Computer Science	ICS-2.1	ICS-3.1	ICS-5.3	ICS-7.1	ICS-7.3
	ICS-2.7	ICS-4.4	ICS-6.6	ICS-7.2	
Computer Science I	CSI-7.6	CSI-8.1	CSI-8.2	CSI-8.3	CSI-8.4




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Introduction to Computer Science in JavaScript					
 <p>The CodeHS introduction to computer science curriculum teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Once students complete the CodeHS Introduction to Computer Science course, they will have learned material equivalent to a semester college introductory course in Computer Science and be able to program in JavaScript.</p>					
Course:	Indiana Standards Addressed				
<b>Introduction to Computer Science</b>	ICS-1.1 ICS-2.1	ICS-2.2 ICS-2.4	ICS-2.5 ICS-2.6	ICS-2.9	
<b>Computer Science I</b>	CSI-1.2 CSI-1.3 CSI-3.1 CSI-3.2 CSI-3.3 CSI-3.5 CSI-3.6	CSI-4.1 CSI-4.2 CSI-4.3 CSI-4.4 CSI-4.5 CSI-4.6 CSI-4.7	CSI-4.8 CSI-4.9 CSI-4.10 CSI-4.11 CSI-4.12 CSI-4.13 CSI-5.1	CSI-5.2 CSI-5.3 CSI-6.1 CSI-6.2 CSI-6.3 CSI-6.4 CSI-6.5	CSI-6.6
<b>Computer Science II</b>	CSI-1.2 CSI-1.3 CSI-3.1 CSI-3.2 CSI-3.3	CSI-3.5 CSI-3.6 CSI-4.1 CSI-4.3 CSI-4.5	CSI-4.6 CSI-4.7 CSI-4.8 CSI-4.9 CSI-4.10	CSI-5.1 CSI-5.2 CSI-5.3 CSI-5.4 CSI-6.1	CSI-6.2 CSI-6.3 CSI-6.4 CSI-6.5 CSI-6.6
<b>Computer Science III: Software Development</b>	CSIII-4.5 CSIII-5.1	CSIII-7.1 CSIII-7.2	CSIII-7.3 CSIII-7.4	CSIII-7.5 CSIII-7.6	



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Introduction to Computer Science in Python					
 <p>The CodeHS introduction to Python course teaches the fundamentals of computer programming as well as some advanced features of the Python language. Students use what they learn in this course to build simple console-based games. This course is equivalent to a semester-long introductory Python course at the college level.</p>					
Course:	Indiana Standards Addressed				
<b>Introduction to Computer Science</b>	ICS-1.1 ICS-2.1	ICS-2.2 ICS-2.4	ICS-2.5 ICS-2.6	ICS-2.9	
<b>Computer Science I</b>	CSI-1.2 CSI-1.3 CSI-3.1 CSI-3.2 CSI-3.3 CSI-3.5 CSI-3.6	CSI-4.1 CSI-4.2 CSI-4.3 CSI-4.4 CSI-4.5 CSI-4.6 CSI-4.7	CSI-4.8 CSI-4.9 CSI-4.10 CSI-4.11 CSI-4.12 CSI-4.13 CSI-5.1	CSI-5.2 CSI-5.3 CSI-6.1 CSI-6.2 CSI-6.3 CSI-6.4 CSI-6.5	CSI-6.6
<b>Computer Science II</b>	CSII-1.2 CSII-1.3 CSII-3.1 CSII-3.2 CSII-3.3 CSII-3.5	CSII-3.6 CSI-4.1 CSI-4.3 CSI-4.5 CSI-4.6 CSI-4.7	CSI-4.8 CSI-4.9 CSI-4.10 CSI-4.11 CSI-4.12 CSI-4.13	CSI-5.1 CSI-5.2 CSI-5.3 CSI-5.4 CSI-6.1 CSI-6.2	CSI-6.3 CSI-6.4 CSI-6.5 CSI-6.6
<b>Computer Science III: Software Development</b>	CSIII-4.1 CSIII-4.2 CSIII-4.5	CSIII-4.7 CSIII-5.1 CSIII-7.1	CSIII-7.2 CSIII-7.3 CSIII-7.4	CSIII-7.5 CSIII-7.6	



# CodeHS: Indiana High School Standards

## AP Computer Science Principles




AP<sup>®</sup> Computer Science Principles is the newest AP course from the College Board. This course introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society.

With a unique focus on creative problem solving and real-world applications, the CodeHS AP Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field.

Course:	Indiana Standards Addressed				
<b>Introduction to Computer Science</b>	ICS-1.1	ICS-2.3	ICS-3.1	ICS-4.3	ICS-6.4
	ICS-1.2	ICS-2.4	ICS-3.2	ICS-4.4	ICS-6.6
	ICS-1.3	ICS-2.5	ICS-3.3	ICS-4.5	
	ICS-1.4	ICS-2.6	ICS-3.4	ICS-5.2	
	ICS-2.1	ICS-2.7	ICS-4.1	ICS-5.3	
	ICS-2.2	ICS-2.9	ICS-4.2	ICS-6.3	
<b>Computer Science I</b>	CSI-1.1	CSI-3.2	CSI-4.3	CSI-4.13	CSI-6.2
	CSI-1.2	CSI-3.3	CSI-4.4	CSI-5.1	CSI-6.3
	CSI-1.3	CSI-3.4	CSI-4.6	CSI-5.2	CSI-6.4
	CSI-1.4	CSI-3.5	CSI-4.8	CSI-5.4	CSI-7.1
	CSI-2.2	CSI-3.6	CSI-4.9	CSI-5.6	CSI-7.2
	CSI-2.3	CSI-3.7	CSI-4.10	CSI-5.7	CSI-7.4
	CSI-2.4	CSI-4.1	CSI-4.11	CSI-5.8	CSI-8.1
	CSI-3.1	CSI-4.2	CSI-4.12	CSI-6.1	
<b>Computer Science II</b>	CSII-1.1	CSII-3.1	CSII-3.11	CSII-4.15	CSII-6.3
	CSII-1.2	CSII-3.2	CSII-4.1	CSII-5.1	CSII-6.4
	CSII-1.3	CSII-3.3	CSII-4.3	CSII-5.2	CSII-6.5
	CSII-1.4	CSII-3.4	CSII-4.4	CSII-5.6	CSII-7.2
	CSII-2.1	CSII-3.5	CSII-4.6	CSII-5.7	CSII-7.3
	CSII-2.2	CSII-3.6	CSII-4.7	CSII-5.8	CSII-7.4
	CSII-2.3	CSII-3.7	CSII-4.9	CSII-6.1	CSII-8.1
	CSII-2.4	CSII-3.8	CSII-4.10	CSII-6.2	



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AP Computer Science in Java					
 <p>The CodeHS AP Java course is a year-long course designed to help students master the basics of Java and equip them to successfully pass the AP Computer Science A Exam at the end of the school year. All learning materials and resources teachers and students need for a successful year-long AP Java course can be found on the CodeHS website.</p>					
Course:	Indiana Standards Addressed				
<b>Introduction to Computer Science</b>	ICS-2.2 ICS-2.3	ICS-2.4 ICS-2.5	ICS-2.6 ICS-2.9		
<b>Computer Science I</b>	CSI-1.1 CSI-1.2 CSI-1.3 CSI-1.4 CSI-2.3 CSI-3.1	CSI-3.2 CSI-3.3 CSI-3.5 CSI-3.6 CSI-4.1 CSI-4.2	CSI-4.3 CSI-4.4 CSI-4.5 CSI-4.6 CSI-4.7 CSI-4.8	CSI-4.10 CSI-4.11 CSI-4.12 CSI-4.13 CSI-5.1 CSI-5.2	CSI-5.3 CSI-5.6 CSI-5.7 CSI-6.6
<b>Computer Science II</b>	CSII-1.1 CSII-1.2 CSII-1.3 CSII-1.4 CSII-1.5 CSII-1.6 CSII-2.3 CSII-3.1	CSII-3.2 CSII-3.3 CSII-3.5 CSII-3.6 CSII-3.7 CSII-3.8 CSII-3.9 CSII-3.10	CSII-4.1 CSII-4.3 CSII-4.4 CSII-4.5 CSII-4.6 CSII-4.7 CSII-4.8 CSII-4.9	CSII-4.10 CSII-4.11 CSII-4.12 CSII-4.13 CSII-4.14 CSII-5.1 CSII-5.2 CSII-5.3	CSII-5.4 CSII-5.6 CSII-5.7



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## Introduction to Cybersecurity



As our world becomes increasingly dependent on technology, cybersecurity is a topic of growing importance. It is crucial that companies and individuals take precautions to protect themselves from the growing threat of cyber attacks. This course prepares students with crucial skills to be responsible citizens in a digital future.

This is the first online blended K12 cybersecurity course. Students will learn foundational cybersecurity topics including networking fundamentals, software security, and basics of cryptography, all through the CodeHS web-based platform.

Course:	Indiana Standards Addressed				
<b>Introduction to Computer Science</b>	ICS-1.4 ICS-4.4 ICS-5.1	ICS-5.3 ICS-5.4 ICS-6.1	ICS-6.2 ICS-6.3 ICS-6.4	ICS-6.5 ICS-6.6 ICS-7.1	ICS-7.2 ICS-7.3
<b>Computer Science I</b>	CSI-2.1 CSI-2.3 CSI-2.4	CSI-7.1 CSI-7.2 CSI-7.3	CSI-7.4 CSI-7.5 CSI-7.6	CSI-8.1 CSI-8.2 CSI-8.3	
<b>Computer Science II</b>	CSII-7.1 CSII-7.2	CSII-7.3 CSII-7.4	CSII-7.5 CSII-7.6	CSII-8.1 CSII-8.2	CSII-8.3 CSII-8.4
<b>Computer Science III: Cybersecurity</b>	CS3S-1.1 CS3S-1.2 CS3S-1.3	CS3S-2.1 CS3S-2.2 CS3S-3.1	CS3S-3.2 CS3S-4.3 CS3S-5.1	CS3S-5.3	