



CodeHS

Texas Fundamentals of Computer Science Course



Created by CodeHS



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Course Overview

Texas Fundamentals of Computer Science



Course Summary

The Texas Fundamentals of Computer Science course is a first year computer science course with a unique focus on creativity and problem-solving. Students explore several important topics of computing, such as programming, digital citizenship, networks, and web design.

Standards Alignment

This course is 100% aligned to the Texas state standards for Fundamentals of Computer Science. View the full aligned with the link below.

Course Documents

Course Overview	codehs.com/course/texasfundofcs/overview
Course Syllabus	codehs.com/syllabus/21202
Standards Alignment	codehs.com/standards/framework/TX_Fund_of_CS/course/21202

How to Preview the Course

Go to codehs.com/login and enter the following TEA teacher credentials to preview the Texas courses on CodeHS.

TEA Teacher Account Credentials

Username: TXdemo

Password: Texas123

 **Navigation Guide:** codehs.com/navguide

CodeHS Pro License

Everything you need to teach, all in one spot.



30,000+

Classrooms Using
CodeHS Per Month

4 million

Students Learning
to Code on CodeHS

CodeHS is a comprehensive computer science teaching platform.

We provide standard-aligned K-12 curriculum, customizable PD, and a suite of teachers tools including a coding LMS and IDE with real-time collaboration.

What's included with a CodeHS **Pro** License?

Access to the full CodeHS platform and curriculum including:

- ✓ Customizable Gradebook
- ✓ Fast Grade
- ✓ AI Hints & Grading Tools
- ✓ Assessment Reports
- ✓ Detailed Lesson Plans
- ✓ Online & Offline Handouts
- ✓ Real-Time Student Data
- ✓ Assignment Configuration
- ✓ Access Controls
- ✓ Due Date Settings
- ✓ Integrations for District Platforms
- ✓ Dedicated Support & more!

Learn More

If you have questions, require additional information, or would like a CodeHS demo, please reach out to us at hello@codehs.com.

Course Outline



Texas Fundamentals of Computer Science

Module	Description
Welcome	Students think about why everyone should learn how to program.
Introduction to Programming	Students explore the fundamentals of programming by giving commands to Karel the Dog using JavaScript syntax, functions, control structures, and proper programming formatting.
Project: Pair-Programming with Karel Paint!	Students apply their knowledge of programming with Karel to design a beautiful piece of art!
What is Computing?	Students dive into the history of computing, consider how computing impacts today's world, and learn about the various parts that make up modern computers.
Digital Information	Students learn about the various ways we represent information digitally including number systems, encoding data, and creating pixel images.
Basic JavaScript	Students learn the basics of JavaScript, including variables, user input, mathematics, and randomization.
The Internet	Students explore the structure and design of the internet, and how this design affects the reliability of network communication, the security of data, and personal privacy.

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Web Design	Students learn the basics of HTML, CSS, and the processes involved in viewing web pages on the internet. Students create several simple web pages using the CodeHS online editor to gain practice!
Project: Designing for Impact	Students learn about what makes an engaging and accessible user interface and will employ an iterative design process including rapid prototyping and user testing to design and develop their own engaging web pages.
Digital Citizenship and Cyber Hygiene	Students learn Internet etiquette, ways to stay safe on the world wide web, potential effects of our digital footprints, how to protect information from online risks, and the implications of cyberbullying.
Computer Science Careers	Students learn about a variety of computer science careers and organizations, and what the next steps could look like for them if interested.

Questions?

Please email the CodeHS Team at hello@codehs.com.