IDAHO DIGITAL LEARNING ALLIANCE

Computer Science Discoveries

Course Description:
This course introduces students to computer science as a vehicle for problem solving, communication, and personal expression. Students use an iterative problem-solving process, explore how computers work, and design an app concept that addresses a real-world problem. They create websites with HTML and CSS in Web Lab at CodeAI, including images, CSS classes, and Flexbox layouts, while learning about digital footprints, accessibility, copyright, and responsible use of digital content.

Students program in JavaScript using Game Lab at CodeAI to create visual designs, captioned scenes, animations, and an interactive card. They use variables, random numbers, sprites, loops, conditionals, and keyboard and mouse input. Students also explore how artificial intelligence and machine learning use data and patterns, and how training data and human choices affect the accuracy and fairness of AI predictions.

This course serves as a prerequisite to all high school CS and IT pathways. It is similar to Exploring Computer Science.

Unit Titles:
Unit 1: Problem Solving and Computing
Unit 2: Intro to Web Development
Unit 3: HTML Images and CSS Styling
Unit 4: CSS Classes and Flexbox
Unit 5: Intro to Interactive Animations and Games
Unit 6: Sprites & Text
Unit 7: Animation & Interaction
Unit 8: Exploring Artificial Intelligence

Course Map & Standards Alignment

Suggested Prerequisites:

None

Compatibility:
This course is Chromebook compatible.

Required Textbooks and Resources:
There is no textbook required for this class. All required resources are available through the online course.
Headphones are optional but recommended.

Technical Requirements for Course Activities:
Visit the Technical Requirements page for basic technology requirements.
Other course-specific technical skills will be taught within the lessons and assignments. For help obtaining the technologies required for your course, visit the Knowledge Base located at the bottom of the Activities page and navigate to Portals & Getting Started.

Accessibility and Assistive Technology:
Visit the Accessibility Tools for assistance and information on assistive technology available to you.

Technical Support:
Phone: 1-208-342-0207
Email Address: support@idla.org
Regular Support Hours: Monday – Friday | 7:30 AM – 5:30 PM MST
Weekend Support Hours: Saturday & Sunday | 8:00 AM – 4:00 PM MST

Other Policies:
Visit the Parent/Student Resources website to obtain information about other policies such as fees, drop deadlines, how to enroll, how grades will be reported, and how to set up your proctored final exam.

Ownership of Materials:
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