

# **Arkansas Computer Science Standards for Grades 9-12**

## **Internship Program**

**2016**

## Internship Program

A Computer Science Internship Program shall be designed to assist in a high-school student's successful transition to career or college. Students who begin careers immediately upon high school graduation as well as those who intend to complete post-secondary training prior to starting a career can benefit from an internship experience. The desired outcomes of internship program include students advancing computer science skills, sharpening soft-skills, and learning new skills while completing internship assignment in a workplace environment. The internship opportunity shall include a strong business partnership that links the internship and its participants to current resources, information, and guidance from computing professionals. It should provide intense, competency-based worksite immersion in advanced computer science concepts.

### Requirements for Districts Implementing a Computer Science Internship Program

- A. The district school board must adopt a written policy outlining the following:
  - a. Eligibility of Students
  - b. Internship Admittance Requirements
  - c. Documentation, evaluation, and retention of Internship Activities and Hours
  - d. Credit to be awarded to a student enrolled in a Computer Science Internship opportunity
    - i. The district may decide to awarded credit to meet a Computer Science Flex Credit, Career Focus Credit, or local credit only
    - ii. The district may award:
      1. 0.5 credit to a student completing a minimum of 60 on-the-job internship hours
      2. credit to a student completing a minimum of 120 on-the-job internship hours
- B. District policy and implementation of a Computer Science Internship Program must be in accordance with all applicable federal, state, and local laws and regulations including all applicable labor laws.

Internship must be tied directly to extending the computer science concepts found within:

- the most current revision of the Arkansas High School Computer Science Standards,
- College Board AP Computer Science Principles or A, and/or
- IB Computer Science SL or HL.

Course Title: 465950 - Internship Program Level 1  
465960 - Internship Program Level 2

Course/Unit Credit: 0.5 Credits per Course/level

Teacher Licensure: Please refer to the Course Code Management System (<https://adedata.arkansas.gov/ccms/>) for the most current licensure codes

Grades: 9-12

Prerequisites: There are no ADE established course prerequisites for any of the Computer Science levels; it is up to the local district to determine placement based on student ability.

## Computer Science Practices

### Students will exhibit proficiency in computer science through:

**Perseverance** - Students expect and persist in overcoming the challenges that occur when completing tasks. They recognize that making and correcting mistakes will take place during the learning process and problem solving.

**Collaboration** - Students effectively work and communicate with others ensuring multiple voices are heard and considered. They understand that diverse thoughts may lead to creative solutions and that some problems may be best solved collaboratively.

**Patterns** - Students understand and utilize the logical structure of information through identifying patterns and creating conceptual models. They decompose complex problems into simpler modules and patterns.

**Tools** - Students evaluate and select tools to be used when completing tasks and solving problems. They understand that appropriate tools may include, but are not limited to, their mind, pencil and paper, manipulatives, software application programs, programming languages, or appropriate computing devices.

**Communication** - Students effectively communicate, using accurate and appropriate terminology, when explaining the task completion or problem solving strategies that were used. They recognize that good documentation is an ongoing part of the process, and when appropriate, provide accurate documentation of their work in a manner that is understandable to others.

**Ethics and Impact** - Students comprehend the ramifications of actions prior to taking them. They are aware of their own digital and cyber presence and its impact on other individuals and society.

**Problem Solving** - Students exhibit proficiency in Computer Science through identifying and systematically solving problems (e.g., engineering design process). They recognize problem solving as an ongoing process.

### Contributors

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