# **Colorado Department of Education LogoComputer Science (K-12) Evaluation Worksheet**

Demonstration of Professional Competencies and Depth of Content Knowledge

## **Applicant**

Legal name:  Click or tap here to enter text. Date: Click or tap here to enter text.

## **Requirements**

Content competency must be demonstrated *for each row within each table* by at least one of the following measures (see below).

In the “Course #/Title/Grade” column, you may include any classes you have taken where you have earned a grade of B- or higher. In your submission, you must also upload official transcripts and an official course syllabus from the term in which the course was taken. If you include multiple transcripts, please specify on which transcript reviewers can find the listed course.

You may consider supplementing your submission with portfolio artifacts that demonstrate professional competencies and content knowledge, including candidate-created unit plans, teaching videos, demonstrated classroom experience in which a rubric review was utilized, etc. These will be listed in the “Portfolio Artifact(s)” column. All portfolio evidence *must* be accompanied by written rationale, indicating how each artifact provided shows content competency of the corresponding concept. Please note, portfolio artifacts are meant to show that you know the *content*, not pedagogy, of your desired endorsement area.

In addition, it is key to use a 1:1 naming convention between the items listed in the artifacts column and the documents you upload in the Colorado Online Licensing system (COOL). For instance, if you write “Data Unit Plan” on the worksheet, there must be a corresponding upload titled “Data Unit Plan” in COOL.

The same artifact/course *may* be used to show competency for multiple concepts; however, the written rationale for portfolio artifacts must be specifically aligned to the concept in that row. If you are submitting a portfolio, multiple pieces of evidence are encouraged per row.

**Computer Science:**

* Coursework: Minimum of B-; syllabi and officialtranscript required
* Portfolio: Artifacts demonstrating attainment of standards outlined below

\*\*\* If you hold a bachelor’s degree or higher in Computer Science, you may submit your application in COOL without doing Multiple Measures.

\*\*\* If you have 24 semester hours of coursework as identified on the [Computer Science Endorsement Worksheet](https://www.cde.state.co.us/cdeprof/endorsementrequirements), you may submit your application in COOL without doing Multiple Measures.

## **Computer Science**

### **Impacts of Computing:**

| **Candidates must demonstrate knowledge of each of the following concepts:** | **Course #/Title/Grade** | **Portfolio Artifact(s)**  **AND**  **Rationale** |
| --- | --- | --- |
| Impact of, obstacles to, and effects of computing | Click or tap here to enter text. | Click or tap here to enter text. |
| Issues regarding intellectual property, ethics, privacy, and security in computing | Click or tap here to enter text. | Click or tap here to enter text. |

### **Algorithms and Computational Thinking:**

| **Candidates must demonstrate knowledge of each of the following concepts:** | **Course #/Title/Grade** | **Portfolio Artifact(s)**  **AND**  **Rationale** |
| --- | --- | --- |
| Computational thinking, such as abstraction, pattern recognition, algorithm formats, etc. | Click or tap here to enter text. | Click or tap here to enter text. |
| Algorithm analysis | Click or tap here to enter text. | Click or tap here to enter text. |

### **Programming:**

| **Candidates must demonstrate knowledge of each of the following concepts:** | **Course #/Title/Grade** | **Portfolio Artifact(s)**  **AND**  **Rationale** |
| --- | --- | --- |
| Code comments, testing, and debugging | Click or tap here to enter text. | Click or tap here to enter text. |
| Process of writing code for application or software program | Click or tap here to enter text. | Click or tap here to enter text. |

### **Data:**

| **Candidates must demonstrate knowledge of each of the following concepts:** | **Course #/Title/Grade** | **Portfolio Artifact(s)**  **AND**  **Rationale** |
| --- | --- | --- |
| How to how to collect, store, transform, analyze, evaluate, and secure data | Click or tap here to enter text. | Click or tap here to enter text. |
| Digitalization, data encryption and decryption, and computational tools | Click or tap here to enter text. | Click or tap here to enter text. |

### **Computing Systems and Networks:**

| **Candidates must demonstrate knowledge of each of the following concepts:** | **Course #/Title/Grade** | **Portfolio Artifact(s)**  **AND**  **Rationale** |
| --- | --- | --- |
| Hardware and software systems, inputs and outputs, specific functions and use of hardware, and troubleshooting problems | Click or tap here to enter text. | Click or tap here to enter text. |
| Internet and network systems, including the internet’s role as facilitator of the transfer of information; a network as a series of interconnected devices and the internet as a series of interconnected networks; and basic internet safety | Click or tap here to enter text. | Click or tap here to enter text. |

08.01.2025 | Determination of qualification will be made by CDE upon evaluation of a complete submission