

Computer Science Teacher Job Description 2024-2025 School Year

JOB SUMMARY:

The primary job of a computer science instructor is to teach computer science with an emphasis on computational thinking and computer science/engineering concepts. Computer science instructors teach basic mathematics and science behind computer operation and the software and hardware. They instruct students how to write computer algorithms, programs or systems, and programming languages. Their tasks include the development of lesson plans and the delivery of information to the class.

Essential functions of the job may include but are not limited to the following:

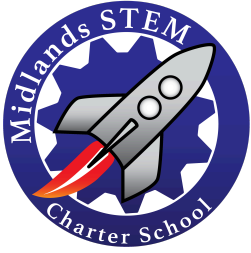
- Organize, maintain and manage class systems in proper working condition.
- Teach students and learners to use computers.
- Design and develop appropriate computer instructional material.
- Manage and monitor student behavior.
- Initiate and implement systems, procedures and other student management issues.
- Develop and implement lesson plans and classroom activities in accordance with the student management issues.
- Conduct group training sessions.
- Determine and troubleshoot technology services for staff.
- Coordinate and collaborate with lead teacher, principal and instructional coaches.
- Integrate special lesson plans with core academic curriculum.
- Provides input in the development of a system-wide and building level programs that enables students to use technology as learning tools. Investigates and disseminates information on best practices for technology integration, sources of information on trends, research and applications related to technology use in the school program.
- Teaches demonstration lessons with the teacher taking over class instruction after the demonstration. Is an effective model/leader of the ongoing program.
- Gathers information documenting the effectiveness of the program, interprets this information, and provides constructive input in evaluation of the program.
- Maintain current knowledge of technology and instructional practices that relate to the use of technology.
- Provides resource information relating to new techniques and practices that relate to the use of technology and that enables students to use technology as a learning tool.
- Supports the use of computers in classrooms.

Minimum Training and Experience

Bachelor's degree in education supplemented by specialized computer courses and 2 to 3 years of experience; or any equivalent combination of training and experience which provides the required skills, knowledge, and abilities.

Knowledge Skills and Ability Required:

- General knowledge of federal, state, and local policies and procedures regarding instructional technology.
- General knowledge of the current literature, trends and developments in the field of instructional technology.
- Considerable knowledge of the appropriate uses of technology for instruction in various subject areas.
- Considerable knowledge of computer technology.



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- Considerable knowledge of multimedia, telecommunications, and popular software packages used for word processing, spreadsheet and database application.
- General knowledge of the ethical guidelines, applicable to the position as outlined by professional standards and/or federal, state and local laws, rules and regulations.
- Ability to evaluate the effectiveness of programs and make recommendations for improvements.
- Ability to develop long term goals and objectives.
- Ability to maintain complete and accurate records and to develop meaningful reports.
- Ability to effectively express ideas orally and in writing.
- Ability to establish and maintain effective working relationships as necessitated by work assignments.