Kentucky CTE

Computer Science: Introduction to Programming 110201 (2026–2027)

Demonstrate knowledge of the program development life cycle. 1	**1 Demonstrate knowledge of the program development life cycle.** 1
Design, develop, compile, debug, test, run, and document programs in the language studied. 2	**2 Design, develop, compile, debug, test, run, and document programs in the language studied.** 2
Design and develop programs using operators and assignments. 3	**3 Design and develop programs using operators and assignments.** 3
Design and develop programs that properly use variables, constants, data types, and objects. 4	**4 Design and develop programs that properly use variables, constants, data types, and objects.** 4
Design and develop programs that use sequence, selection, and repetition structures. 5	**5 Design and develop programs that use sequence, selection, and repetition structures.** 5
Design and develop programs that use simple data structures. 6	**6 Design and develop programs that use simple data structures.** 6
De pr	**esign and develop programs that use effective error and exception handling.** 7

Skip to main content

effective error and exception handling. 7

Design and develop programs that implement user-defined methods and modular programming. 8

8 Design and develop programs that implement user-defined methods and modular programming. 8

Design and develop programs that implement file processing. 9

9 Design and develop programs that implement file processing. 9

Design and develop programs that implement fundamental features that are unique to the language studied. 10

10 Design and develop programs that implement fundamental features that are unique to the language studied. 10

Design and develop programs using object-oriented programming features, if applicable to the language studied. 11

11 Design and develop programs using object-oriented programming features, if applicable to the language studied. 11

Explain how algorithms are used to produce artificial intelligence (AI). 12

12 Explain how algorithms are used to produce artificial intelligence (AI). 12

Evaluate and critique the effectiveness and efficiency of code written. 13

13 Evaluate and critique the effectiveness and efficiency of code written. 13