



Obtaining a Computer Science Teaching Endorsement

1. How to earn a teaching endorsement (282 IAC 13.29(a)).

Two options:

1. Complete a program of study for required courses through an approved teacher preparation college or university. The program will recommend you directly to the BoEE for the endorsement.
2. Take required courses and submit your transcripts directly to the BoEE for their review and approval.

2. Required coursework (282 IAC 13.28(35))

Methods: One course

Requirement	Course
A grade level specific methods of teaching computer science course.	Must be taken from a college/university with an approved teacher preparation program.

Content: A minimum of 12 semester hours of computer science to include coursework in the following:

Requirement	Courses*
Data representation and abstraction to include primitive data types, static and dynamic data structures, and data types and stores.	Intro to Programming Logic Programming Logic and Design Computer Programming Intro to Game Design Computer Science Data Structures Computational Structures
Designing, developing, testing and refining algorithms to include proficiency in two or more programming paradigms.	C++ C# C# for Game Developers Java iOS Programming Introduction to Database SQL



Requirement	Courses*
	Game Development Intro to Procedural Languages COBOL Visual Basic Mobile User Interface Design Mobile Device Security Android App Development Apple App Development Objective-C for Apple Apps Mobile Web App Fundamentals Mobile Data Storage Management Mobile Game Development
Systems and networks to include operating systems, networks, mobile devices, and machine-level data representation.	Intro to Large Computer Systems Information Security Computer Organization PC Clinic Survey of Mobile Development Technologies Troubleshooting Hardware / Software Installation and Troubleshooting IT Essentials Computer Hardware Basics Networking Technology / Administration / Security Operating Systems Networking Technologies Introduction to Networking Computer Forensics / Hacking / Cybersecurity Wireless & Mobile Implementation

*Courses can be taken from a college or university or a community college. The list of possible courses are from community colleges and have been approved by the Board of Educational Examiners to meet endorsement requirements. Check with the college or university for their course offerings.

Citations:

Iowa Administrative Code 281-79, Standards for Practitioner and Administrator Preparation Programs

Iowa Administrative Code 282-13, Issuance of Teacher Licenses and Endorsements