

## HIGH SCHOOL COMPUTER EDUCATION COURSE CODES GRADES 7-12

*High school (grades 9-12) courses in Computer Education require 120 contact hours per credit.*

Course Code	Course Name	Grade Levels	Description	Accreditation Time/ Credit Options*	License/credential Required**
23005	Computers & Keyboarding I	7-8	The student will develop basic skills in operating the keyboard using the touch system.	NDAC 67-19-01-34 (2)(b) ◆ may be counted as part of the minimum 200 minutes per week of additional courses	License Code: 23000-Computer Science ◆ 7-12 or 9-12
23006	Computers & Keyboarding II	7-8	The student will further develop skills in operating a computerized keyboard by using the touch system to produce mailable business documents. Mailability standards apply to keying, formatting, grammar, punctuation, capitalization, spelling, content, and layout and design. The student will be able to format academic and business reports.	NDAC 67-19-01-34 (2)(b) ◆ may be counted as part of the minimum 200 minutes per week of additional courses	
23011	Computer Applications	9-12	The main focus of this course is microcomputer operation system functions and commands. Students learn about operating system concepts, disk and file formats, disk and file management, and control and processing programs. Students learn to use utilities to sort, merge, copy, back up, and recover data. They also perform installation and execution of business applications software.	½ or 1	License Code: 23000-Computer Science ◆ 7-12 or 9-12
23012	Computer Programming	9-12	Basic programming concepts are presented which are transferable to other programming languages. Foundational concepts and fundamentals of computer programming including logic, design, coding, structure, and controls are addressed. Careers in programming are explored and students are provided with opportunities to increase their communication, teamwork, and critical thinking skills. Business projects are used to show how programming skills are used in the business world.	¼, ½, or 1	
23015	Advanced Computer Programming	10-12	Includes further experiences with programming languages and disk file management.	½ or 1	
23580	Advanced Placement Computer Science A©	10-12	Advanced Placement Computer Science A refers to a specific course developed and copyrighted© by the College Board. Teachers of this course receive special training to teach the curriculum.	½ or 1	
23581	Advanced Placement Computer Science AB©	10-12	Advanced Placement Computer Science AB refers to a specific course developed and copyrighted© by the College Board. Teachers of this course receive special training to teach the curriculum.	½ or 1	

\* High school curricular requirements are spelled out in NDCC 15.1-21-02. Accreditation Rules can be found at <http://www.legis.nd.gov/information/acdata/pdf/67-19-01.pdf>. For accreditation, schools must provide additional units of credit based on school enrollment [see NDAC 67-19-01-32 (3)].

\*\* Please refer to the second page of the teacher's North Dakota Educator's Professional license to verify which subject areas a teacher is qualified to teach. Licenses and endorsements are obtained on a teaching license from the Education Standards and Practices Board (ESPB). Credentials are obtained from the Department of Public Instruction (DPI) and are issued to individuals holding a current teaching license.