

Information and Communications Technology (Software Coding)

Degree Type

Certificate

Contact Information

Bonnie Schillinger, department chair
Bonnie.Schillinger@ndscs.edu
701-671-2496
Horton Hall 227/NDSCS-Fargo 138

Delivery Methods

Face-to-Face: Fargo
Online: All Classes
Combination

Software coding requires knowledge of programming and database development. They assist in developing or adapting applications for businesses and organizations to meet the end user's needs.

Formal education and real-world experience form a good basis for the development of coding software. This curriculum will enhance student's skill sets and knowledge which will assist in the building and maintaining of applications or programs.

For students wishing to pursue a bachelor's degree at a four-year college or university, please see the Computer Science or Management Information Systems Liberal Arts transfer curriculum plans listed in the Liberal Arts section of this catalog.

Facilities

NDSCS has hardware and networking labs. Each of these labs has current equipment and software.

All Information and Communications Technology students are required to purchase laptop computers. These laptops give students adequate computer access to complete projects and assignments given in class.

Instruction

The instructors for this program have formal educational training, industry training and certifications, and work experience in Information Technology. Laboratory time is scheduled into each student's program to enable them to receive individual attention and hands-on computer experience.

NOTE: This program requires either an HP EliteBook or ZBOOK laptop or equivalent. Please refer to the NDSCS website for specifications. For further information, contact the NDSCS ITS Department at 701-671-3333 option 5.

Admission Requirements*

The applicants must be high school graduates or equivalent. Helpful courses to prepare for this curriculum are keyboarding, Internet classes, and any publication type class.

Please Note: Students are placed into English, math and reading courses based on ACT, ACCUPLACER or other nationally recognized tests. Please see www.ndscs.edu/current-students/student-success/test-center for the NDSCS Course Placement Policy and testing information. Students may be on an extended plan of study pending their course placement.

**Program Admission Requirements are subject to revision. Please check the department or program website under Program Admission Requirements for current information.*

Award

Upon successful completion of the required courses for the degree, students will be awarded a Certificate in Information and Communications Technology with an emphasis in Software Coding.

Required Courses

Course Code	Title	Credits
CIS 180	HTML and CSS	3
CSCI 133	Database Concepts I (SQL)	3
CSCI 134	Database Design and Management	3
CSCI 162	Web Application Programming	3
CSCI 230	Web Database I	3
	General Education Electives (3 credits)	3
	Total Required Credits	18