

INFORMATION TECHNOLOGY (BS)

The purpose of the Information Technology program at Sitting Bull College is to provide students with the education and skills needed to succeed in the field of Information Technology and Technology. Our students will acquire knowledge conducive to beginning a life-long career in our ever-changing technological society, developing the skills to adjust to the fast-paced innovative field requiring security and privacy, while continuing to thrive in this evolving world. Students will use the attained critical thinking abilities to provide solutions to problems, implement ideas, and sustain our interconnected society.

Technology is driving businesses and governments today which require employees to have technological knowledge and skills. Individuals own personal computers, tablets, smartphones and home networks, and a wide variety of other computerized devices. Information Technology students at SBC will develop a firm foundation in Information Technology to prepare them for employment. The courses offered at SBC are standardized with the North Dakota University System's common course numbering system. (Sitting Bull College Bulletin, 2022, P. 157).

The course content emphasizes cybersecurity, data privacy, IT administration, hardware, software, networking, information systems, and electives complimentary to our core coursework. Students will accomplish the life-long skills that will give them the advantage to prosper in our growing society and accomplish their goals.

1. The student will demonstrate their understanding of computer information systems and fundamental computer concepts.
2. The student will engage in purposeful, ongoing learning activities that improve their knowledge, skills and competence in their personal and professional lives.
3. The student will communicate professionally and effectively in a variety of contexts.
4. The student will recognize professional responsibilities and make informed and equitable judgments in computing practice based on legal and ethical principles.
5. The student will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

General Education Requirements

Code	Title	Hours
ENGL 110	Composition I	3
ENGL 120	Composition II	3
COMM 110	Fundamentals of Public Speaking	3
MATH 103	College Algebra	4
PSYC 100	First Year Learning Experience	3
SOC 120	Transitions-Graduation & Beyond	2
NAS 101 or NAS 103	Ochethi Sakowin Language for Beginners Introduction to Ochethi Sakowin Language, Culture & History	3
CSCI 101	Introduction to Computers (Humanities & Social & Behavioral Science)	3

Humanities or Social & Behavioral Science

Select two courses from: Arts, English, History, Humanities, Music, Native American Studies, Criminal Justice, Economics, Geography, Human Services, Psychology, and Sociology.

Health/Physical Education

Select two one-hour or any one two-hour course.

Laboratory Science

Select any two four-hour laboratory science courses.

Core Requirements

CIS 128	Microcomputer Hardware I	3
CIS 129	Microcomputer Hardware II	3
CIS 141	Introduction to Cybersecurity	3
CIS 164	Networking Fundamentals I	4
CIS 165	Networking Fundamentals II	4
CIS 167	Enterprise Networking, Security, & Automation	4
CIS 169	Firewalls & Network Security	3
CIS 185	Introduction to Programming with Python	3
CIS 212	Operating Systems Client	3
CIS 215	Implementing a Server Environment	3
CIS 241	Introduction to Digital Forensics	3
CIS 243	Incident Response & Disaster Recovery	3
CSCI 133	Database Concepts I (SQL) (Computer Information Systems Electives)	6

Professional Core Requirements

IT 301	Information Technology Concepts and Practices	3
IT 320	Hardware & Operating System Administration (Computer Information Systems Electives)	3
IT 375	Advanced Firewall Configuration	3
IT 340	Network Technology & Architecture Administration	3
IT 400	Principles of Project Management in Information Technology	3
IT 410	Integrating Lakota Language into Technology	3
IT 497	Information Technology Capstone	4

Computer Information Systems Electives

Select two of the following:

CIS 181	Creating Web Pages	3
CIS 220	Linux Administrator I	3
CIS 223	Linux Administrator II	3
CIS 255	Cloud Foundations	3
CIS 261	Cybersecurity Law & Ethics	3
CIS 264	Ethical Hacking & Network Defense	3
CIS 270	Cybersecurity Infrastructure Configuration	3
CIS 271	Cybersecurity Prevention & Countermeasures	3
CSCI 122	Visual Basic	3

300-400 Level Electives

Total Hours **121**