Information Technology

Department Information

- **Department Web Site:**
  https://www.ndsu.edu/cs/
- **Credential Offered:**
  B.S.
- **Program Overview:**
  /programs-study/undergraduate/information-technology/ (http://catalog.ndsu.edu/undergraduate/program-curriculum/information-technology/ http:///programs-study/undergraduate/information-technology/)

Major Requirements

Major: Information Technology

Degree Type: B.S.
Minimum Degree Credits to Graduate: 120

University Degree Requirements

1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
3. Satisfactory completion of the general education requirements as specified by the university.
4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
5. At least 30 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.
6. At least 36 credits presented for graduation must be in courses numbered 300 or higher.
7. Students presenting transfer credit must meet the NDSU residence credits and the minimum upper level credit. Of the 30 credits earned in residence, a minimum of 15 semester credits must be in courses numbered 300 or above, and 15 semester credits must be in the student's curricula for their declared major.

For complete information, please refer to the Degree and Graduation Requirements (http://catalog.ndsu.edu/academic-policies/undergraduate-policies/degree-and-graduation/) section of this Bulletin.

University General Education Requirements

A list of university approved general education courses and administrative policies are available here (http://catalog.ndsu.edu/academic-policies/undergraduate-policies/general-education/#genedcoursestext).

Code	Title	Credits
Category C: Communication		**12**
ENGL 110	College Composition I	
ENGL 120	College Composition II	
COMM 110	Fundamentals of Public Speaking	
Upper Division Writing [†]		
Category R: Quantitative Reasoning [†]		**3**
Category S: Science and Technology [†]		**10**
Category A: Humanities and Fine Arts [†]		**6**
Category B: Social and Behavioral Sciences [†]		**6**
Category W: Wellness [†]		**2**
Category D: Cultural Diversity [*†]		
Category G: Global Perspectives [*†]		
Total Credits		**39**

*
Courses for category D & G are satisfied by completing D & G designated courses in another general education category.

†
General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.

Code	Title	Credits
Core Information Technology Requirements		
CSCI 105	Introduction to Cybersecurity	3
CSCI 159	Computer Science Problem Solving	3
CSCI 177	Introduction to Information Technology	3
CSCI 213	Modern Software Development	3
CSCI 222	Discrete Mathematics	3
CSCI 277	Introduction to UNIX	3
CSCI 305	Principles of Cybersecurity	3
CSCI 312	Survey of Programming Languages	3
or CSCI 372	Comparative Programming Languages	
CSCI 313	Software Development with Frameworks	3
CSCI 359	Networking	3
CSCI 366	Database Systems	3
CSCI 371	Web Scripting Languages	3
CSCI 374	Computer Organization and Architecture	3
CSCI 377	Information Technology	3
CSCI 397	Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective)	3
CSCI 445	Software Projects Capstone	3
CSCI 450	Cloud Computing	3
CSCI 474	Operating Systems Concepts	3
CSCI 489	Social Implications of Computers	3
MATH 105	Trigonometry	3
STAT 330	Introductory Statistics	3
Select one of the following sequences:		8 or 9
Sequence One:		
CSCI 227	Computing Fundamentals in Python I	
CSCI 228	Computing Fundamentals in Python II	
CSCI 229	Computing Fundamentals in Python III	
Sequence Two:		
CSCI 160	Computer Science I	
CSCI 161	Computer Science II	
Technical Electives - Select 2 courses from the following:		6
CSCI 410	Computer Crime and Forensics	
CSCI 422	Fundamentals of Data Engineering	
CSCI 473	Foundations of the Digital Enterprise	
CSCI 476	Cloud Systems Administration	
CSCI 488	Human-Computer Interaction	
Total Credits		**77-78**