39

# **Computer Science Major (B.A.)**

## Major Requirements

Degree Type: B.A. Minimum Credits Required: 120

#### **University Degree Requirements**

For complete details on these and other university degree requirements, refer to the Degree and Graduation Requirements (http://catalog.ndsu.edu/ academic-policies/undergraduate-policies/degree-and-graduation/) section in the University Catalog.

- 1. Minimum of 120 semester credits (some programs may exceed this minimum).
- 2. Complete the University General Education requirements.
- 3. Minimum institutional GPA of 2.00 based on work taken at NDSU.
- 4. Minimum of 30 credits in resident at NDSU.
- 5. Minimum of 36 upper level credits (courses numbered 300 or higher).
- 6. Students with transfer credit must meet the NDSU 30 credits in residence (#4). Of these 30 credits in residence, a minimum of 15 credits must be in courses numbered 300 or above, and 15 credits must be in the student's declared major curricula.

#### **University General Education Requirements**

A list of university approved general education courses along with the administrative policies governing the requirement and the categories is available here (http://catalog.ndsu.edu/academic-policies/undergraduate-policies/general-education/).

Code	Title	Credits	
Category C: Communication	12		
Category R: Quantitative Reasoning	3		
<b>Category S: Science and Technology</b>	10		
Category A: Humanities and Fine Art	6		
Category B: Social and Behavioral So	6		
Category W: Wellness	2		
Category D: Cultural Diversity			
Category G: Global Perspectives			
Category L: Digital Literacy			

**Total Credits** 

### **Major Requirements**

A Grade of 'C' or better is required for all CSCI prefix courses.

Code	Title	Credits		
B.A. Computer Science Core Requirements				
CSCI 114	Computer Applications (May satisfy general education category S)	3		
or TL 116	Business Software Applications			
CSCI 159	Computer Science Problem Solving	3		
CSCI 160	Computer Science I	4 or 6		
or CSCI 227 & CSCI 228	Computing Fundamentals in Python I and Computing Fundamentals in Python II			
CSCI 161	Computer Science II	4		
CSCI 213	Modern Software Development	3		
CSCI 222	Discrete Mathematics	3		
CSCI 312	Survey of Programming Languages	3		
CSCI 313	Software Development with Frameworks	3		
CSCI 366	Database Systems	3		
CSCI 371	Web Scripting Languages	3		
CSCI 445	Software Projects Capstone <sup>1</sup>	3		
CSCI 488	Human-Computer Interaction	3		

Total Credits		63-65
Proficiency at the second year lev	rel in a modern foreign language.	
BA Degree Requirements		
Statistics	STAT prefix course (except for STAT 330 or STAT 331)	
Math	MATH prefix course with a number higher than MATH 147, but not MATH 165	
Engineering	Cannot be ENGR 311 or ENGR 312	
Science	Cannot be courses with the CSCI prefix	
Select these seven credits from the	ne following areas:	7
Other Courses:		
STAT 331	Regression Analysis	2
STAT 330	Introductory Statistics	3
or MATH 165	Calculus I	
MATH 146	Applied Calculus I (May satisfy general education category R)	4
COMM 261	Introduction to Web Development (or any 300/400 level CSCI elective)	3
COMM 260	Introduction to Web Design	3
Related Major Requirements		
CSCI 489	Social Implications of Computers <sup>1</sup>	3

<sup>1</sup> CSCI 445 Software Projects Capstone & CSCI 489 Social Implications of Computers form the department capstone. CSCI 445 is typically taken during the last spring semester and CSCI 489 is typically taken during the last fall semester prior to degree completion.