UNIVERSITY OF NORTH DAKOTA AU-ABC – PROGRAM PLAN

Degree: Bachelor of Science in Computer Science

Purpose of degree: The Bachelor of Science in Computer Science degree provides students with fundamental system and programming skills and knowledge needed to design and develop tomorrow's technology solutions.

Degree breakdown: The Bachelor of Science in Computer Science at the University of North Dakota requires:

- 124 total credits
  - 30 credits must be taken at UND
  - 36 credits must be upper-division (300-level or higher)
- Essential Studies Requirements
  - Receive Breadth of Knowledge waiver
  - Special Emphasis requirements
- Curriculum approved by the College of Engineering & Mines
- 2.0 minimum GPA (Both UND and cumulative GPA's must meet this requirement.)

Questions?

Visit **UND.edu/programs/computer-science-bs** for more details on the Bachelor of Science in Computer Science degree.

For assistance on how to apply contact:

Veteran & Military Services
701.777.3363
vets@UND.edu

Program Plan File (PPF): **Bachelor of Science in Computer Science**

Category: 3

University of North Dakota | Effective Date: **January 1, 2021**

Degree Requirements	Required Semester Credits	CCAF Transfer Credits	UND Course Credits
Core/Area of Focus	**96**	**24****	**72**
CSCI 160 Computer Science I	4	4***	
CSCI 161 Computer Science II	4	4[3 4 6]	
CSCI 242 Algorithms and Data Structures	3	3[6]	
CSCI 265 Introduction to Programming Languages	3		3
CSCI 266 Tools and Techniques of Computing Practice	3		3
CSCI 280 Object Oriented Programming	3		3
CSCI 289 Social Implications of Computer Technology	3		3
CSCI 327 Data Communications	3		3
CSCI 330 Systems Programming	3		3
CSCI 363 User Interface Design	3		3
CSCI 364 Concurrent and Distributed Programs	3		3
CSCI 365 Organization of Programming Languages	3		3
CSCI 370 Computer Architecture	4		4
CSCI 435 Formal Languages and Automation	3		3
CSCI 451 Operating Systems I	3		3
CSCI 455 Database Management Systems	3		3
CSCI 463 Software Engineering	3		3
CSCI 492 Senior Project I	3		3
CSCI 493 Senior Project II	3		3
EE 201/EE 201L Introduction to Digital Electronics & Lab	4	4[1 5 6 7]	
CSCI Electives 300-level or higher	12	6[3]	6
MATH 107 - Precalculus	4		4
MATH 165 Calculus I	4		4
MATH 166 Calculus II	4		4
MATH 207 Introduction to Linear Algebra	2		2
MATH 321 – Applied Statistical Methods	3		3
MATH 208 Discrete Mathematics	3	3[3]	
Electives	**29**	**23**	**6**
LMMS – Leadership, Management & Military Studies	8	8	
Approved Lab Sciences sequence	8	8[2]	
Diversity of Human Experience (D) Special Emphasis course for Essential Studies*	3		3
Analyzing Worldview (W) Special Emphasis course for Essential Studies*	3		3
Electives to meet 124 required credits	6	6	

Total Credits Required **Bachelor of Science in Computer Science**	**124**	**47****	**78**

[1] Awarded for degrees in Avionic Systems Technology (4VHS)

[2] Awarded for degrees in Bioenvironmental Engineering Technology (7GAM)

[3] Awarded for degrees in Computer Science Technology (0CYY)

[4] Awarded for degrees in Cybersecurity (0CYC)

[5] Awarded for degrees in Electronic Systems Technology (4VHP)

[6] Awarded for degrees in Information Systems Technology (0IYY)

[7] Awarded for degrees in Mechanical & Electrical Technology (4VGA)

* student should work with advisor to select courses that will fulfill Essential Studies requirements

** number of credits awarded based on CCAF AAS degree

***Awarded for degrees listed above