**COMPUTER SCIENCE COMPREHENSIVE, BACHELOR OF SCIENCE**

Offered by Department of Computer Science and Information Technology ([http://catalog.unk.edu/undergraduate/departments-programs/computer-science-information-technology](http://catalog.unk.edu/undergraduate/departments-programs/computer-science-information-technology))

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**General Studies**

**Foundational Core (Written, Math, Oral, Democracy)**

Foundational Core courses ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses))

Including:

- MATH 115 Calculus I with Analytic Geometry

**Portal**

Select one course numbered 188 ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/portal-course](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/portal-course))

**Distribution**

- Aesthetics ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/aesthetics](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/aesthetics))
- Humanities ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/humanities](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/humanities))
- Social Sciences ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/social-sciences](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/social-sciences))
- Natural Sciences ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/natural-sciences](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/natural-sciences))
- Analytical and Quantitative Thought ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/analytical-quantitative-thought](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/analytical-quantitative-thought))

Including:

- CSIT 130 Introduction to Computer Science

**Wellness** ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/wellness](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/wellness))

Needed to reach 27 credit hour minimum in Distribution

**Capstone**

Select one course numbered 388 ([http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/capstone-course](http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/capstone-course))

**BS Science-related course requirements**

Take 1 course from the following:

- STAT 241 Elementary Statistics
- STAT 345 Applied Statistics I
- STAT 441 Probability and Statistics

**Major Option**

Complete all required courses

**Unrestricted electives**

Needed to reach 120 credit hour minimum

**Total Credit Hours**

A grade of "C" or above is required for all courses in this Option. In this option, prerequisites are fulfilled when the prerequisite courses have been passed with a "C" or above.

**Major Option**

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**Computer Science Comprehensive Core Requirements**

- CSIT 150 Object Oriented Programming
- CSIT 180 Discrete Structures
- CSIT 301 Computer Organization
- CSIT 330 Algorithms and Data Structures
- CSIT 401 Operating Systems
- CSIT 402 Introduction to Automata, Formal Languages, and Computability
- CSIT 404 Software Engineering
- CSIT 408 Principles of Programming Languages
- CSIT 425 Database Systems
- CSIT 441 Artificial Intelligence
- CSIT 496 Seminar in Computer Science
- MATH 202 Calculus II with Analytic Geometry
- MATH 440 Linear Algebra

**Computer Science Electives**

Select 9 credit hours of the following:

- CSIT 300-CSIT 499 (except CSIT 388, CSIT 492 - CSIT 495)

Select 9 credit hours of the following:

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Students without sufficient preparation will also need to take the following courses, increasing the total credit hours needed:

- MATH 102
- MATH 103

As approved by the department.

Except CSIT 388. Take no more than 6 credit hours from CSIT 492, CSIT 493, CSIT 494, CSIT 495

Except PHYS 388