APPLIED COMPUTER SCIENCE, BACHELOR OF SCIENCE DEGREE

Offered by Department of Computer Science and 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) 14

Including:

- MATH 115  Calculus I with Analytic Geometry 1

**Portal**

Select one course numbered 188 (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/portal-course) 3

**Distribution**

- ENG 101  Introduction of Academic Writing 3

*If ENG 101 is not taken as a prerequisite for ENG 102 then additional hours may be required to meet the 27 credit hour minimum in the Distribution Area of General Studies.*

**Aesthetics** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/aesthetics) 3

**Humanities** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/humanities) 6

**Social Sciences** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/social-sciences) 6

**Natural Sciences** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/natural-sciences) 7

**Analytical and Quantitative Thought** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/analytical-quantitative-thought) 4

Including:

- CSIT 130  Introduction to Computer Science 3

**Wellness** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/wellness) 0

**Capstone**

Select one course numbered 388 (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/capstone-course) 3

**BS Science-related course requirements**

Select one of the following: 3

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

**Unrestricted electives**

Needed to reach 120 credit hour minimum 8

**Total Credit Hours**

120

All courses in this major require a minimum grade of "C". 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 Core Requirements**

- CSIT 150  Object Oriented Programming 3
- CSIT 180  Discrete Structures 3
- CSIT 301  Computer Organization 3
- CSIT 330  Algorithms and Data Structures 3
- CSIT 401  Operating Systems 3
- CSIT 402  Introduction to Automata, Formal Languages, and Computability 3
- CSIT 404  Software Engineering 3
- CSIT 408  Principles of Programming Languages 3
- CSIT 441  Artificial Intelligence 3
- CSIT 496  Seminar in Computer Science 3

**Computer Science Electives**

Select 6 credit hours of the following with advisor approval: 6

- CSIT 300-CSIT 499 3

**Total Credit Hours**

36

1. Students without sufficient preparation will also need to take the following courses, increasing the total credit hours needed:
   - MATH 102
   - MATH 103

2. A minor or second major is required for a complete degree program. The number of required electives needed to reach 120 total credit hours overall will depend upon the specific program chosen.

3. Take no more than 3 credit hours from CSIT 399, CSIT 492, CSIT 493, CSIT 494, CSIT 495