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)

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

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

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

Needed to reach 27 credit hour minimum in Distribution 1

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

Major Option

Complete all required courses 36

Minor or 2nd Major

Complete all required courses 2 24

Unrestricted electives Needed to reach 120 credit hour minimum 10

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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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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Computer Science Core Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CSIT 150</td>
<td>Object Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 180</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 301</td>
<td>Computer Organization</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 330</td>
<td>Algorithms and Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 401</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 402</td>
<td>Introduction to Automata, Formal Languages, and Computability</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 404</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 408</td>
<td>Principles of Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 441</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CSIT 496</td>
<td>Seminar in Computer Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer Science Electives

Select 6 credit hours of the following: 6

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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