From my first visit to campus during my senior year of high school, I had a positive impression of UNK. Everyone I encountered on my visit was friendly, helpful, and genuinely loved going to UNK,” said Ben Wagner, a 2017 graduate from Columbus, Nebraska. “I had been interested in using technology from a young age. When it came time to select a major, computer science was the obvious choice. Jobs in the field of technology are also in high demand and growing, so I knew I had high likelihood of finding employment upon graduation,” Wagner said. “Computer science and programming in general are all about problem-solving – breaking down an issue and solving it step by step,” he said, “My problem-solving skills significantly increased during my time at UNK and these skills are easily transferable to other aspects of life outside of school. On top of that, having the opportunity to work with various technologies, such as virtual reality, really opened my eyes to where user interfaces and video games are headed in the future.”

During Wagner’s study at UNK he took an internship with Xpanxion in Kearney. After graduation, his time as an intern opened a door for a full time position as a Software Developer. “My internship certainly made the transition to full-time status tremendously less stressful,” he said. “UNK helped me gain the skills necessary to succeed in the workplace through my degree and experience with technology. UNK also helped me become a more outgoing person and improve my communication skills, which are universally beneficial in almost any aspect of life.”

Applied Computer Science

Students majoring in the Applied Computer Science program at the University of Nebraska at Kearney are prepared to make useful, meaningful contributions to the world. Students work collaboratively as they creatively design, develop and implement software solutions, such as mobile apps, games and robotics solutions. Students gain real-world experience by completing hand-on projects and gain a strong theoretical foundation that prepares them for successful careers.

The curriculum is continually updated to keep pace with changing industry needs and practices so students graduate with skills that are in demand in today’s job market. The Applied Computer Science program is designed primarily for students who want to seek employment after graduation rather than pursuing graduate school. A minor or second major is required.

Studying applied computer science is great training for a variety of careers. After graduating, you will qualify for positions as a:

- Programmer
- Server administrator
- Systems analyst
- Web designer
- Database administrator
- Network administrator

Some of our graduates have gone on to:

- The Buckle
- Xpanxion
- Sandhills Publishing
- Cabela’s
- Mutual of Omaha
- Intel
- PayPal
- Microsoft
- Fiserv

Computer science job openings were projected to increase by an average of 23% from 2010-2020.

Bureau of Labor Statistics

Bureau of Labor Statistics
### Applied Computer Science Bachelor of Science

**FOUR YEAR CLASS SCHEDULE**

The schedule is a guideline for progress toward a degree. Consult with your academic advisor.

<table>
<thead>
<tr>
<th>Semester 1 (15 credits)</th>
<th>Semester 2 (15 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSIT 130GS Intro to Computer Math 115 Calculus I English 101 Expository Writing Portal 188 of your choice</td>
<td>CSIT 150 O0 Programming CSIT 180 Discrete Structures English 102 Expository Writing Natural Science elective Minor course requirement</td>
</tr>
<tr>
<td>Semester 3 (16 credits)</td>
<td>Semester 4 (15 credits)</td>
</tr>
<tr>
<td>CSIT 330 DS &amp; Algs Stat 241, 345, or 441 Natural Science Lab elective Speech 100 Fundamentals of Speech Minor course requirement</td>
<td>CSIT 441 Artificial Intelligence CSIT 301 CS Computer Organization Humanities elective Democracy elective Minor course elective</td>
</tr>
<tr>
<td>Semester 5 (15 credits)</td>
<td>Semester 6 (15 credits)</td>
</tr>
<tr>
<td>CSIT 401 Operating Systems CSIT elective Aesthetics elective Social Science elective Minor course elective</td>
<td>CSIT 404 Software Engineering CSIT elective Humanities elective Minor course elective Minor course requirement</td>
</tr>
<tr>
<td>Semester 7 (15 credits)</td>
<td>Semester 8 (14 credits)</td>
</tr>
<tr>
<td>CSIT 402 Finite Automata CSIT 496 CS Seminar Capstone 388 of choice Social Science elective Minor course elective</td>
<td>CSIT 408 Programming languages General elective General elective General elective Minor course elective</td>
</tr>
</tbody>
</table>

---

### ALUMNI PROFILE – TYLER MCONVILLE

“Each and every one of the professors had office hours almost every day. They were all always so friendly and I can remember a few times where I would stop in just to chat for a bit. You could tell that they truly cared about the students and making sure that the students were able to effectively learn what they needed to succeed,” said Tyler McConville, a 2014 UNK graduate, from Columbus, Nebraska.

While studying at UNK, McConville had 3 internships: The Buckle, Xpanxion, and Hollman Media. “By the time I graduated, I had already been working in software development for a year and a half, and so I was able to hit the ground running when I got my first full-time job after graduating,” he said.

McConville has been working for Surge LLC remotely since 2015 as senior software engineer. He is responsible for developing software for multiple clients. “Technology is constantly evolving, and the Computer Science program gave me the ability to understand that technology at the most fundamental level, so that I can easily adapt to those changes.”

---

### Association for Computing Machinery

(An organization for CSIT majors)

**Activities at the local level**
- Guest speakers invited to campus
- Sponsor of Disinfection Day
- Tours of business IT departments and data centers

...and at the national level
- Yearly conference hosted
- Journal, magazine and newsletter publications provided to enrich a student’s education

### Personal traits for CSIT success:

- Solves problems
- Thinks at multiple levels
- Adapts to new technology
- Works professionally
- Collaborates
- Perseveres
- Communicates clearly (oral/written)

### Scholarships available:

**Freshman scholarship**
- The Buckle scholarship

**Continuing Student scholarships**
- Northwestern scholarship
- Buckle Continuing scholarship
- Association for Computing Machinery

### Reasons to choose CSIT at UNK:

- 100% job placement for dedicated students
- Extensive partnerships with businesses
- Low instructor/student ratio
- Hands-on practical experience
- Mobile application, gaming and robotics development
- One-on-one attention from award winning professors
- Professional certification and online education opportunities
- High rate of acceptance into grad schools

---

**For more information, contact:**
Sherri Harms, Department Chair
Computer Science & Information Technology
Otto Olsen Hall, Room 116
2508 12th Avenue
Kearney, NE 68849
Contact: harmssk@unk.edu or 308.865.8370

CSIT – 0717