COMPUTER SCIENCE

MAJOR MAP

WHO WE ARE

- The Department of Computer Science is dedicated to providing high-quality education, conducting both theoretical and applied research in critical areas of computer science, and offering service to its constituents. Students will acquire technical skills and analytical mindsets to resolve problems by creating computing-based solutions. They will be taught modern techniques for analyzing issues, potential resolutions, and development that will enable them to lead and assist the workforce. The department also places emphasis on lifelong learning and on promoting transferable skills that can be used to tackle future challenges.
- Computer science students are encouraged to develop their skills through coursework, extracurricular activities, internships, and competitions.
- Students will be able to build computing-based solutions (such as software, networking for mobile devices, etc.) that address various needs, whether for an individual, group, industry, or society.
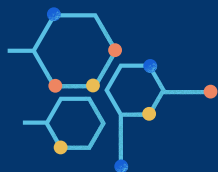
What skills will students learn throughout this program?

- **Analyze the requirements for a software solution to determine its specifications.**
- **Develop software solutions in currently utilized programming languages and development environments.**
- **Communicate with technical and non-technical audiences about the solutions to computing problems.**
- **Students will understand and communicate the societal impacts of computing solutions, including ethical considerations, access, and availability.**

CAREER OUTCOMES:

- Software Developer
- AI/Machine Learning Engineer
- Information Security Analyst
- Cloud Developer
- User Experience
- Data Analyst
- Roboticist

AREAS OF STUDY:

- Data Science
- Cybersecurity and Networking
- Bioinformatics

The program offers a minor in Computer Science.

WHAT SKILLS ARE YOUR FUTURE EMPLOYERS LOOKING FOR?

- Programming Proficiency
- Problem-Solving Skills
- Communication Skills
- Database Management
- Web Development
- Operating Systems
- Networking
- Cybersecurity
- Version Control Systems
- Continuous Learning
- Teamwork

For more information, click here
https://www.tnstate.edu/computer_science/