Computing and Information Sciences
As part of Kansas State University’s College of Engineering, the Department of Computing and Information Sciences is committed to offering high quality degree programs. Not only do we educate our graduates to become leaders in the competitive world of technology, we also prepare them to make an impact on all industries through their cutting-edge knowledge and training.

**TOP 10 AREAS OF SPECIALIZATION FOR UNDERGRADUATE STUDY**

1. Software Engineering
2. Real-Time Embedded Systems
3. Cybersecurity
4. Multimedia and Graphics Technology (Game Programming)
5. Networks and Mobile Computing
6. Parallel and Distributed Computing
7. Database and Knowledge Management Systems
8. Bioinformatics
9. Enterprise Information Systems
10. Computer Science Theory

**UNDERGRADUATE MAJORS**

- Computer Science
  - Traditional Computer Science
    - This option is well suited for students seeking a liberal education as well as those wishing to pursue graduate study in computer science.
  - Software Engineering
    - This option emphasizes the systematic, quantifiable approach to the design, development, operation and maintenance of software.
  - Information Systems
    - This option emphasizes the use of computers to solve problems in the operations of business and commerce.

**GRADUATE MAJORS**

- M.S. in Computer Science
- M.S.E. in Software Engineering
- Ph.D. in Computer Science

Both the M.S.E. and the Ph.D. in Computer Science are available via distance learning.
Students at Kansas State University gain hands-on, high-tech experience with a wide range of operating systems and application software. Whether exploring an Android tablet or a powerful supercomputer, it all begins in the department’s own state-of-the-art technology labs.

The CIS Department will relocate to the new 40-million-dollar addition to the Engineering Complex in Spring 2016. Beyond placing us closer to the rest of the College of Engineering, our new home will include state-of-the-art labs, classrooms, and offices. This building project is part of an initiative by the Kansas legislature to increase the number of Engineering graduates from the three major state universities by 50%.

**Beocat**
- Beocat is a Beowulf cluster: a collection of computers networked together to perform massive parallel computations.
- Over 3,500 cores and 3 petabytes of RAM allow Beocat to chew through even the most challenging of operations.
- Student programming opportunities are available through concurrent courses and other undergraduate research.

**Cybersecurity Lab**
- Hosts multiple networks of machines capable of emulating hundreds of combinations of hardware and operating system configurations.
- Allows exploration in network weakness and defense techniques, hacking and counter-hacking, software exploits, and cryptography.
- Our program has been named a Center of Academic Excellence in Information Assurance Education by the National Security Agency.

**Linux Lab**
- Our dedicated Linux Lab allows students to learn about what goes on “under the hood” of operating systems and networking.
- Key concepts include priority based scheduling, system call handlers, memory managers, and networked file systems.
- Variety of operating systems, ranging from an instructional system called Pintos to the more widely used Android operating system.

**Gaming/HPC Lab**
- Engage in a hands-on, high-tech experience with a wide range of operating systems and application software.
- Available hardware allows for the exploration of modern gaming interfaces like Xbox Controllers, WiiMotes, and Microsoft Kinect.
The CIS Department is comprised of approximately 20 highly productive faculty members who form the backbone of our department’s strong interdisciplinary teaching and research programs. Our faculty is committed to excellence in scholarly activities in both of these areas. Kansas State University professors are researchers themselves, giving you the state-of-the-art experience that you need to succeed. Small class sizes make the learning environment more interactive, giving you a chance for extra feedback on homework and projects.

SCHOLARSHIPS

For more information about scholarships at Kansas State University, please visit http://www.k-state.edu/sfa/scholarships/

FINANCIAL ASSISTANCE

For more information about financial assistance at Kansas State University, please visit http://k-state.edu/sfa.
Many internships and co-op opportunities are available to our students that offer valuable professional experiences and contacts in the field before graduation. A wide variety of companies recruit students through the All-University Career Fair, Engineering Career Fair, and employer sponsored recruitment events within the Department of Computing and Information Sciences. Microsoft, Google, Garmin, and National Instruments are just a few of the companies that actively recruit and employ CIS students.

There are a number of on-campus information technology and web development-related jobs available for students to gain hands-on experience. Faculty members also involve students in research at all levels, and research-related employment positions are often available.

Career possibilities in computing sciences are as numerous and varied as the applications for which computers are used. Software engineering and related occupations are forecast to be one of the fastest growing fields over the next decade. Job opportunities are available in traditional software development and in operational specialties in all areas of the economy: business, banking, communication, manufacturing, agriculture, entertainment, education, and government. The result is impressive starting salaries: exceeding $65,000 as of Spring 2014 and continuing to rise every year.

**OUR STUDENTS ARE EMPLOYED AT**

- National Instruments
- EnVisage Consulting
- Perceptive Software
- Texas Instruments
- General Dynamics
- Rockwell Collins
- Conoco Phillips
- GE Aviation
- Garmin
- Honeywell
- Microsoft
- CivicPlus
- Lsi Logic
- Google
- SofTek
- Cerner
- Koch

**AND START WITH JOBS AS**

- System Programmers
- Software Developers
- Network Specialists
- Technical Managers
- Software Engineers
- Network Engineers
- Technical Support
- Systems Analysts
- Database Admins
- Web Developers
- App Developers
- IT Directors
ASSOCIATION FOR COMPUTING MACHINERY (ACM)
The Association for Computing Machinery is the professional organization for computer scientists, and our student chapter sponsors guest speakers, programming contests, game nights, organizes Open House activities, and holds open tutoring sessions for computer science courses.

WOMEN IN COMPUTING (ACM-W)
The ACM-W student chapter supports and celebrates women in computing by hosting social events that allow students to interact with other technical women, network with female professionals and scholars in computing fields, participate in volunteer activities, and more.

MAKERSPACE CLUB
Club members have access to a makerspace with over $10,000 of equipment, including MakerBot 3D printers, Arduino microcontrollers, and a plethora of motors, magnets, and electronic components which can be used to bring their creative visions to life.

GOOGLE GROUP
Google at K-State is here to inform and educate the students, faculty, and staff of K-State about the programs, professional opportunities, and events that Google, Inc. offers.

MOBILE DEVELOPMENT CLUB
Club members develop software for mobile devices like tablets and phones.

WORLD CLASS
CLUBS AND ACTIVITIES

CYBER DEFENSE CLUB
Club members develop their cyber defense skills by hacking or counterhacking in simulated network environments. Opportunities also arise to meet guest researchers from other universities and to compete in national cybersecurity competitions.

GAME DEVELOPMENT CLUB
Club members work in interdisciplinary teams to develop computer games. The club also sponsors presentations on game programming and development, demonstrates their games at K-State Open House, and hosts game jams.

GAME NIGHTS
The Association for Computing Machinery (ACM) sponsors game nights throughout the semester. Students, armed with their personal computers, form teams to compete in a multiplayer networked game environment. Luckily, soda and snacks are provided because these parties usually last all night!

KSU eSPORTS
K-State’s competitive video gaming club hosts several tournaments throughout the school year in addition to competing in regional, collegiate, and national leagues and tournaments.

CIS MOVIE NIGHT
Come watch movies featuring the computer technologies of past, present, and future, followed by discussions about the social impact, artistic value, and implications of these great films.
WORLD CLASS FUTURE

APPLY TODAY

Take the first step towards embracing your world class future with Kansas State University’s Department of Computing and Information Sciences by applying online at www.k-state.edu/admit.

Learn more at cis.k-state.edu

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