



**KENTUCKY STATE
UNIVERSITY**

SCHOOL OF MATHEMATICS AND COMPUTER SCIENCES

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The School of Mathematics and Computer Science at Kentucky State University offers a dynamic and supportive environment for students pursuing careers in mathematics, computer science, and related technology fields. The school is committed to academic excellence, innovation, and hands-on learning, preparing students for success in a rapidly evolving digital world.

With undergraduate and graduate degree programs, as well as minors and certificates in high-demand areas such as cybersecurity, network engineering, data analytics, and game development, students gain both theoretical knowledge and practical experience. The curriculum emphasizes critical thinking, problem-solving, and real-world application through access to modern labs, industry tools, and small class sizes that foster personalized instruction and mentorship.

The school also supports opportunities for research, internships, and professional certifications, ensuring that graduates are well-prepared for advanced study or immediate entry into the workforce. Whether students aim to become software developers, educators, network specialists, or researchers, the School of Mathematics and Computer Science equips them with the skills and confidence to lead and innovate in their chosen fields.

Bachelor of Science in Computer Science

Computer Science offers the following options as Bachelor of Science majors:

- Game Development (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/game-development-bs/>)
- Information Systems (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/information-systems-bs/>)
- Mathematics (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/mathematics-bs/>)
- Computer Information Security (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/information-security-bs/>)
- Network Engineering (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/network-engineering-bs/>)

- Cybersecurity - KYSU On-Line (<https://ksu-public.courseleaf.com/online/undergraduate/cybersecurity-bs/>)

Computer Science Minors

Computer Science offers the following options as minors:

- Computer Gaming (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/computer-gaming-minor/>)
- Computer Information Systems (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/computer-information-systems-minor/>)
- Computer Science (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/computer-science-minor/>)

Computer Science Certificates

Computer Science offers the following options as certificates:

- Computer Technician (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/computer-technician-certificate/>)
- Cyber Security (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/cyber-security-certificate/>)
- Database Analytics (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/database-analytics-certificate/>)
- Information Assurance (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/information-assurance-certificate/>)
- Network Associate (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/network-associate-certificate/>)
- Network Professional (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/network-professional-certificate/>)

Bachelor of Science in Mathematics

Mathematics offers the following options as Bachelor of Science majors:

- Bachelor of Science in Mathematics Education (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/mathematics-bs-education-track/>)

KSU students who pursue a bachelor of science in Mathematics Education must also meet all other requirements for admission to and completion of the Teacher Education Program. Interested teacher candidates should contact the School of Education or refer to the School of Education section of the KSU Catalogue for more details.

- Bachelor of Science in Pure Mathematics

Bachelor of Arts in Mathematics

- Bachelor of Arts in Pure Mathematics (<https://ksu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/mathematics-ba-pure-mathematics-track/>)

Mathematics Minor

- Mathematics Minor (<https://kysu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-math-and-computer-sciences/mathematics-minor/>)