



**KENTUCKY STATE
UNIVERSITY**

SCHOOL OF ENGINEERING AND TECHNOLOGY

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The School of Engineering and Technology continues to change and expand just as science does. The newly launched school will continue to expand its offerings in both undergraduate and graduate programs. Our strength continues to be our student-centered hands-on approach to helping our students learn and understand STEM. Students have access to our faculty not only in the lecture hall but in every laboratory as well. We will create unique academic space and instructional approach to meet the demand of new engineering industry. This helps them develop a firm foundation in academic coursework that will carry them forward to internships and research experiences both on campus and at many of the region's scientific institutions and companies. We take pride in our students' success, both at Kentucky State University and after graduation, knowing that we are helping them make a local and global impact by creating solutions and developing technologies that address society's challenges.

Mission

The mission of the School of Engineering & Technology at Kentucky State University is to provide a transformative education that fosters innovation, critical thinking, and leadership in engineering and technology. We are committed to excellence in teaching, research, and community engagement, preparing our students to solve real-world problems and contribute to the advancement of society.

Vision

Our vision is to be a leading institution in engineering and technology education, recognized for our commitment to academic excellence, cutting-edge research, and inclusive practices. We aim to inspire and empower our students to become global leaders and innovators who drive positive change and sustainable development.

Bachelor of Science Degree Offerings

Engineering and Technology offers the following options as Bachelor of Science majors:

- Manufacturing Engineering Technology (<https://kysu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-engineering-and-technology/manufacturing-engineering-technology-bs/>)

The Manufacturing Engineering Technology program at Kentucky State University is intended to prepare individuals to apply basic engineering principles and technical skills to the identification and resolution of production problems in the manufacture of products. The program includes

instruction in machine operations, production line operations, engineering analysis, systems analysis, instrumentation, physical controls, automation, computer-aided manufacturing (CAM), manufacturing planning, quality control, and informational infrastructure. This program can offer graduating students an opportunity to build a rewarding career in additive manufacturing that is more focused than other broad-based models in order to meet the need of semi-conductor/chip manufacturing industry due to increasing demand for smart devices and smart automobiles.

- Biological & Agricultural Engineering (<https://kysu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-engineering-and-technology/biological-agricultural-engineering-bs/>)

Students in Biological and Agricultural Engineering Program at Kentucky State University will learn to apply fundamental knowledge of biological and physical sciences, mathematics, and engineering principles to formulate and solve engineering problems. Engineering design is integrated throughout the curriculum, along with opportunities to develop communication, learning, and teamwork skills, culminating in a capstone design experience. In addition, student would require to gain summer internship experience starting from sophomore year until graduation. In order to be successful biological and agricultural engineers, students need to acquire a set of skills, knowledge, and behaviors as they progress through the curriculum.

KSU's Engineering programs are utilizing ABET outcomes as the basis to begin moving for programmatic accreditation once approved by SACSCOC.

- Physics Minor (<https://kysu-public.courseleaf.com/undergraduate/business-engineering-technology/school-of-engineering-and-technology/physics-minor/>)

A minor in Physics requires the completion of at least 19 semester credit hours. The link takes you to specific course requirements.