What is Engineering Technology?
The Bachelor of Science in Engineering Technology (BSET) is a hands-on program based upon engineering and technology fundamentals, engineering principles, instrumentation, mathematics, science, and applied design principles needed to equip students for employment or further education.

Engineer of 2020
To give our students the most complete education possible, we developed the Engineer of 2020 program. Through service learning, study abroad and global learning, undergraduate research, leadership, multidisciplinary education and internships and cooperative education, students make their engineering degree more meaningful, giving them an advantage in the job market and when applying to graduate school.

Engineering Technology at WSU
Our focus is on current engineering technology issues and applications used in product design, testing, installation and maintenance to prepare students for careers in manufacturing, construction, healthcare, education, and technical services or sales.

The BSET curriculum offers four specialized program concentrations:

- Civil Engineering Technology
- Cybersecurity
- Engineering Technology Management
- Mechatronics Technology

Career Opportunities
Graduates of four-year engineering technology programs are called engineering technologists. Technologists have many career options, including: automation and controls/robotics, business administration, energy management, project management, tooling and production management, quality and safety analysis, wind farm management, and more.

Advising
When you choose to major in engineering technology, your faculty adviser from the engineering technology program will help you plan your course of study and will outline specific requirements for degree completion. It is important that you complete the basic skills classes (Calculus I, Technical Calculus II, General Chemistry I, and General Physics I) before the completion of specialization or selected program track focus. Transfer students must talk to their advisor about transferring their courses over for WSU credit.

Laboratory and Computer Facilities
Engineering technology students will have access to several labs as part of their coursework including automation and controls, electrical and electronics, manufacturing, mechanical, renewable energy, and robotics. As an engineering student, you will also have access to design and simulation software in our computer studios, computational hub and virtual instrumentation lab in the new Experiential Engineering Building on WSU’s Innovation Campus.

Engineering Student Engagement
Students are encouraged to participate in student chapters of Institute of Industrial and Systems Engineers (IISE), Society of Manufacturing Engineers (SME), Engineering Council, and other student organizations. If you are eligible, you may join Tau Beta Pi, the honor society for all areas of engineering.

When you enroll in an engineering program at WSU, you join a community where faculty, staff and fellow students work together to help you reach graduation. The Engineering Student Success Center will help you succeed academically, personally and professionally through engagement in our Engineering Living Learning Community (LLC), Mentor UPP (Undergraduate Peer Partners) program, and GEEKS (Great Expectations: Engineering Kansas Scholars) tutoring.
Education Requirements

Basic Skills (12 hours minimum)
- College English Comp (Eng. 100 or 101 and 102) - 6 credit hours
- Public Speaking (Communication 111) - 3 credit hours
- College Algebra - 3 credit hours

Mathematics and Natural Sciences (21 hours min)
- College Trigonometry - 3 credit hours
- Calculus I and Technical Calculus II - 8 credit hrs
- General College Physics I - 5 credit hours
- General Chemistry I - 5 credit hours

Fine Arts, Humanities, and Social and Behavioral Sciences (18 hours minimum)
- One introductory course from a fine arts discipline - 3 credit hours
- One introductory course from a humanities discipline - 3 credit hours
- One introductory course from a social and behavioral sciences discipline - 3 credit hours
- One introductory course from a second social and behavioral sciences or humanities discipline - 3 credit hours
- One further study course from one of the two disciplines in the humanities or social and behavioral sciences - 3 credit hours
- Philosophy 385 Engineering Ethics - 3 credit hours

Major Requirements
- Intro to Programming - 4 credit hours
- Composition: Business, Prof. & Technical Writing - 3 credit hours
- Intro to Engineering Technology - 3 credit hours
- Applied Mechanics: Statics & Dynamics - 3 credit hours
- Statistical Process Control - 3 credit hours
- Senior Project I and II - 6 credit hours
- Engineering Graphics - 3 credit hours
- Engineering Economics - 3 credit hours
- Manufacturing Methods & Materials - 3 credit hours
- Concentration specific courses - 31-32 credit hours
- Technical Electives - 14-15 credit hours

Faculty
- Taha Aldoss (PhD). Fluid mechanics and materials, renewable energy, sustainability, thermo-fluids, and thermo-machinery.
- Deepak Gupta (PhD). Energy management and sustainability, supply chain, manufacturing systems, and engineering education.
- Viswanathan Madhavan (PhD). FEA of manufacturing processes, strain rate and temperature measurement in machining, constitutive models, tribology of high speed sliding contacts, friction in sheet metal forming, use of virtual reality in the design of assembly lines, and engineering education.
- Kara McCluskey (MS). Sustainability, renewable energy, applied fluid mechanics and materials, and water resources.
- Wilfredo Moscoso-Kingsley (PhD). Material behavior, tribology, mechanics and feedback control in advanced machining, joining and thermo-mechanical processing.
- Perlekar Tamtam (PhD). Power systems, renewable energy, energy storage, and impact of inverters on the grid.
- M. Bayram Yildirim (PhD). Applied optimization, network optimization, supply chain management, scheduling, transportation planning, and pricing on congestible networks.

KSDegreeStats.org

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For more information on Engineering Technology at WSU visit wichita.edu/engineering or call (316) 978-3420.