Engineering Technology at WSU
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.

The 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 three specialized program concentrations: Engineering Technology Management, Mechatronics Technology, and Renewable Energy 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. Internships and co-ops are available to students for real-world application of their knowledge and career training.

Admission
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.

Related Opportunities
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.

Additionally, Engineering Technology students have access to computer laboratories equipped with microcomputers connected through a local area network and terminals connected to the University mainframe computer and the Internet.

Engineer of 2020
All graduates of the College of Engineering are required to complete three of the following six activities: undergraduate research, cooperative education or internship, service learning, study abroad or global learning, leadership and multidisciplinary education. These requirements were made in response to recommendations by the National Academy of Engineering on the future needs for engineering graduates.

Laboratory and Computer Facilities
Engineering technology students will have access to several different labs as part of their coursework including automation and controls, electrical, electronics, manufacturing, mechanical, renewable energy, and robotics. Additionally, Engineering Technology students have access to computer laboratories equipped with microcomputers connected through a local area network and terminals connected to the University mainframe computer and the Internet.

Related Programs
All of Wichita State’s engineering programs - aerospace, computer, electrical, industrial, bioengineering, manufacturing, mechanical, and engineering technology - share a math/science background and technical orientation. Graduate programs leading to Master of Science (MS) and doctoral degrees are offered in aerospace, electrical, industrial, and mechanical engineering, as well as a master’s degree program in engineering management.

For more information
If you have further questions or would like to schedule a campus visit, please contact the Office of Admissions.

Office of Admissions
(316) 978-3085
wichita.edu/admissions
wichita.edu/visit

Marcus Welcome Center
Office of Admissions
1845 Fairmount
Wichita, KS 67260-0124
Education Requirements

**Basic Skills** (12 hours minimum)
- Must be completed in the first 48 college hours and a C or better.
  - 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 hours
- 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 disciplines - 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 division, humanities or social and behavioral sciences, in which two introductory courses are taken - 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 thermomachinery.

**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.

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