

careers

- Mechanical engineer
- Design engineer
- Manufacturing engineer
- Operations and maintenance engineer
- Sales engineer
- Engineering technician
- Engineering associate
- Production assistant
- Operation and maintenance associate
- Technical sales associate

areas of interest

- Mechanical design
- Manufacturing
- Fluid mechanics
- Thermodynamics
- Computer-aided-design and drafting
- Computer aided manufacturing
- Automated manufacturing systems
- Industrial instrumentation and controls

job placement

- Average starting salary is \$45,000
- 100 percent job placement during the last academic year

about our program

Mechanical engineering technology prepares students for a broad range of technical positions with an emphasis on the practical application of engineering principles to actual industrial problems.

The mechanical engineering technology program provides students with a strong foundation in applied engineering, science, mathematics, communications, humanities and social sciences, and business. The program is designed to meet the diverse needs of the local, national, and global industrial workforce. Mechanical engineering technology concepts are used in a multitude of industries and are directly applied to product design and manufacturing.

Both the associate's and the bachelor's degrees in mechanical engineering technology are accredited by the Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 telephone: (410) 347-7700



contacts

Department Head:

Dr. Saeed Khan

Phone: 785-826-2675

E-mail: saeed@k-state.edu

Faculty:

Dr. Raju Dandu

Phone: 785-826-2629

Email: rdandu@k-state.edu

Dr. Masud Hassan

Phone: 785-826-2649

Email: masudg@k-state.edu

Greg Spaulding, P.E.

Phone: 785-826-2622

Email: gspauld@k-state.edu

Julia Morse

Phone: 785-826-2650

Email: jmorse@k-state.edu

Department Office:

Annette Hernandez

Phone: 785-826-2646

E-mail: ahernan@k-state.edu



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MECHANICAL
engineering technology



K-STATE
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laboratory facilities

- Modern machine shop
- CAD/CAM/CAE
- Rapid prototyping
- CNC machines
- Automated manufacturing systems
- Programmable logic controllers
- Data acquisition systems
- Materials testing
- Metallurgy
- Fluid power

industry design projects

The Industry Internship Program is designed to broaden and develop the student's knowledge, skills and competency in mechanical engineering technology.

In senior design course projects, seniors apply the knowledge and the experience they've gained in various courses to design, analyze, test and build a prototype system. Student teams work on real projects provided by industry, write reports and present solutions to company officials.



the courses

ASSOCIATE'S DEGREE

Freshman Fall Semester				Hrs.
MET	111	Technical Graphics		3
MATH	100	College Algebra		3
MATH	151	Applied Plane Trigonometry		2
ENGL	100	Expository Writing I		3
MET	121	Manufacturing Methods		3
CMST	110	Intro. to Visual Basic		3
ETA	020	Engineering Technology Sem.		0
				17

Freshman Spring Semester				Hrs.
MET	125	CNC Machine Processes		2
MET	117	Mechanical Detailing		3
CHM	110	General Chemistry		3
CHM	111	General Chemistry Lab		1
PHYS	113	General Physics I		4
		Humanities/ Soc. Science		3
SPCH	105	Public Speaking 1A		2
				18

Sophomore Fall Semester				Hrs.
MET	231	Physical Materials & Metallurgy		3
MET	252	Fluid Power Technology		3
CET	211	Statics		3
ECET	100	Basic Electronics		4
MATH	220	Analytic Geometry & Calculus I		4
				17

Sophomore Spring Semester				Hrs.
MET	230	Automated Manufacturing Systems I		3
MET	264	Machine Design Technology I		4
MET	246	Dynamics of Machines		3
MET	245	Material Strength and Testing		3
ENGL	302	Technical Writing		3
				16

BACHELOR'S DEGREE

Junior Fall Semester				Hrs.
MET	314	Computer-Aided Design & Modeling		3
ECET	304	Electric Power and Devices		3
MET	365	Machine Design Technology II		3
CMST	302	Application in C for Engineering Technology		3
MATH	221	Analytic Geometry & Calculus II		4
				16

Junior Spring Semester				Hrs.
MET	353	Fluid Mechanics		3
MET	346	Elements of Mechanisms		3
ENGL	200	Expository Writing II Upper Division		3
		Technical Elective		3
MET	382	Industrial Instrumentation and Controls		3
				15

Senior Fall Semester				Hrs.
MET	481	Automated Manufacturing Systems II		3
MET	462	Senior Design Project I		1
PHYS	114	General Physics II		4
		Humanities/Soc. Science Upper Division		3
		Humanities/Soc. Science		3
				14

Senior Spring Semester				Hrs.
MET	464	Senior Design Project II		2
MET	471	Thermodynamics and Heat Transfer		3
		Upper Div. Technical Elective		3
		Business Elective		3
		Upper Div. Humanities/Soc. Science		3
				14

clubs / student life



Mechanical engineering technology students have many opportunities to apply their knowledge and have a little bit of fun outside the classroom. They can take part in our student chapter of the Society of Manufacturing Engineers (SME), help build another Cat Cannon, Mini Baja, or Solar Boat.

