

career fields

- Communication engineer
- Electrical engineer
- Design engineer
- Control systems engineer
- Sales engineer
- Avionics engineer
- Engineering technician
- Engineering associate
- Technical sales associate

areas of interest

- Electronic design
- Automated manufacturing systems
- Industrial control systems
- Digital design
- Programmable logic devices
- Telecommunications systems
- RF circuits and devices

job placement

- Average starting salary around \$55,000
- 100 percent job placement for most years

about our program

K-State at Salina's electronic and computer engineering technology program can prepare you for an exciting career in electronics.

The electronic and computer engineering technology degree provides a solid foundation in a range of electronic circuit topics. Students also receive a strong background in mathematics, science and interpersonal communications.

Education Core Topics

- Circuit analysis
- Digital electronics
- Microprocessors
- Programming and interfacing
- Computer programming
- RF communication circuits

Both the associate's and the bachelor's degrees in electronic and computer 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. Saeed Khan

Phone: 785-826-2675

E-mail: saeed@k-state.edu

Aaron Westerman

Phone: 785-826-2673

E-mail: aww@k-state.edu

Eduard Plett

Phone: 785-826-2926

E-mail: eplett@k-state.edu

Department Office:

Annette Hernandez

Phone: 785-826-2646

E-mail: ahernan@k-state.edu



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ELECTRONIC & COMPUTER

engineeringtechnology



**K-STATE
AT SALINA**

projects

Students work on many interesting projects during their degree program in ECET. Here are some samples:

Analog electronics

Students are required to design and build power supplies for a manufacturing course. They use their own parameters and assemble it from the circuit board to the chassis.

Digital electronics

Microcontroller projects include building robots and security systems. Digital System students have designed video games, traffic light controllers and assembly line controllers.

Wireless/RF electronics

Students have built satellite antennas and microstrip line feeds.

Senior projects

Senior design projects make use of the knowledge and experience gained throughout a student's college career. Students are usually given a design problem from an area employer. They create a solution and deal with the company from concept to completion. They also learn how to utilize a budget and work on a team.



the courses

ASSOCIATE'S DEGREE

| Freshman Fall Semester | | | | Hrs. |
|------------------------|-----|-----------------------------|--|-----------|
| ECET | 100 | Basic Electronics | | 4 |
| MATH | 100 | College Algebra | | 3 |
| MATH | 151 | Applied Plane Trigonometry | | 2 |
| ENGL | 100 | Expository Writing I | | 3 |
| SPCH | 105 | Public Speaking 1A | | 2 |
| ETA | 020 | Engineering Technology Sem. | | 0 |
| | | | | 14 |

| Freshman Spring Semester | | | | Hrs. |
|--------------------------|-----|--------------------------------|--|-----------|
| ECET | 101 | DC Circuits | | 4 |
| ECET | 110 | Semiconductor Electronics | | 4 |
| MATH | 220 | Analytic Geometry & Calculus I | | 4 |
| PHYS | 113 | General Physics I | | 4 |
| CMST | 110 | Intro. to Visual Basic | | 3 |
| ETA | 020 | Engineering Technology Sem. | | 0 |
| | | | | 17 |

| Sophomore Fall Semester | | | | Hrs. |
|-------------------------|-----|--------------------------|--|-----------|
| ECET | 201 | AC Circuits | | 4 |
| ECET | 210 | Linear Circuit | | 4 |
| ECET | 240 | Electronic Manufacturing | | 3 |
| ECET | 250 | Digital Logic | | 4 |
| ENGL | 302 | Technical Writing | | 3 |
| | | | | 18 |

| Sophomore Spring Semester | | | | Hrs. |
|---------------------------|-----|-----------------------------|--|-----------|
| CMST | 250 | Computer Networking | | 3 |
| ECET | 330 | Industrial Controls | | 4 |
| ECET | 350 | Microprocessor Fundamentals | | 4 |
| CHM | 110 | General Chemistry | | 3 |
| CHM | 111 | General Chemistry Lab | | 1 |
| | | | | 3 |
| | | | | 18 |

BACHELOR'S DEGREE

| Junior Fall Semester | | | | Hrs. |
|----------------------|-----|--|--|-----------|
| ECET | 352 | Digital Circuits & Systems | | 4 |
| CMST | 302 | Applications in C for Engineering Technology | | 3 |
| MATH | 221 | Analytic Geometry & Calculus II | | 4 |
| | | | | 4 |
| | | | | 15 |

| Junior Spring Semester | | | | Hrs. |
|------------------------|-----|-----------------------------------|--|-----------|
| ECET | 320 | Electronic Communications Systems | | 4 |
| ENGL | 200 | Expository Writing II | | 3 |
| BUS | 315 | Supervisory Management | | 3 |
| | | | | 3 |
| | | | | 16 |

| Senior Fall Semester | | | | Hrs. |
|----------------------|-----|---------------------------|--|-----------|
| ECET | 421 | Telecommunication Systems | | 4 |
| ECET | 430 | Network Analysis | | 3 |
| ECET | 480 | Electronic Design I | | 1 |
| | | | | 3 |
| | | | | 14 |

| Senior Spring Semester | | | | Hrs. |
|------------------------|-----|---|--|-----------|
| ECET | 420 | Communications Circuits Design | | 4 |
| ECET | 450 | Digital Systems & Computer Architecture | | 4 |
| ECET | 481 | Electronic Design II | | 2 |
| | | | | 3 |
| | | | | 3 |
| | | | | 16 |

clubs / student life

Students in the electronic and computer engineering technology program also have several chances to get involved in campus life outside the classroom. Whether you join the Solar Boat Club or Mini Baja Team, or become a member of the student chapter of the Institute of Electrical and Electronics Engineering (IEEE), you'll be able to take what you've learned in the classroom and have fun with it!



Dennis Kuhlman, dean of K-State at Salina, and students pose with last year's entry into the Solar Boat competition.