At the Klipsch School of Electrical and Computer Engineering, we provide “big school” opportunities with a “small school” atmosphere.
Electrical and Computer Engineering Studies

Electrical and computer engineering students at NMSU gain a breadth of knowledge across a range of topics in a hands-on intensive curriculum. The undergraduate program trains students to apply the fundamentals of mathematics and physics and the core areas of computer engineering, circuits and systems, electromagnetic and electronics to analyze problems and creatively design solutions. Electives are offered to provide an area of specialization, such as control systems, communications, computer architecture, digital design, electromagnetic, electronics, photonics, power, or signal processing. Students are well prepared to begin a career or continue their education in a graduate program.

Computer Engineering

Student will have the opportunity to obtain an in-depth knowledge of digital systems and practical experience in the design, operation, programming, and applications of digital computers. Students could expect to continue on in these areas to develop better and faster computers and interfaces.

Signals and Systems

Students working in this area could possibly work on cell phone design, satellites, sensor design and monitoring, imaging and pattern recognition (from security to medical applications), music (filtering signals, processing signals), any type of transmission (communication) from one place to another, noise reduction, analysis of signals.

Power and Control

Students in this area could expect to work in the generation, distribution and monitoring of systems which deliver power to consumers. Work in the control systems area provides the student with a background in modeling, analysis, design, simulation, and control of complex systems.

Photonics and Electromagnetics

Students could expect to work with lasers and laser applications including communications, imaging systems, and optical sensors. Students may also study electromagnetic fields, wave propagation, antennas, waveguides, transmission lines, lasers, and optics.