Electrical and Computer Engineering

Graduate ECE Courses

Code	Title	Hours
EE 5342	Systems Engineering Mgmt	3
EE 5343	Requirements Engineering	3
EE 5344	Integratn, Verifictn, Validatn	3
EE 5394	Graduate Research	3
ECE 5141	Laboratory for ECE 5341	1
ECE 5191	Individual Studies	1
ECE 5300	Probability & Random Processes	3
ECE 5301	Computational Methods for EE	3
ECE 5310	Power System Operations	3
ECE 5311	Smart Grid Fundamentals	3
ECE 5312	Energy Sustainability	3
ECE 5313	Advanced Trans Power Flow Cont	3
ECE 5321	Antenna Theory	3
ECE 5322	Adv Fiber Optic Communications	3
ECE 5323	Radar Signal Processing	3
ECE 5330	Digital Signal Processing	3
ECE 5331	Image Processing	3
ECE 5332	Biomed Signal & Image Process	3
ECE 5335	Adv Digital Communications	3
ECE 5336	Stat Infer for Signal Analysis	3
ECE 5340	Semiconductor Device Physics	3
ECE 5341	Electronic Material Processing	3
ECE 5342	Modern Semiconductor Devices	3
ECE 5343	Nanoelectronics	3
ECE 5344	Advanced Optoelectronic Device	3
ECE 5350	Operating Systems	3
ECE 5352	Computer Architecture I	3
ECE 5355	Advanced VLSI Design	3
ECE 5361	Fuzzy Logic & Engineering	3
ECE 5362	Computer Vision	3
ECE 5371	Data Communications	3
ECE 5372	Network Protocols	3
ECE 5380	Linear Systems Analysis	3
ECE 5381	Systems Engineering Fundamtls	3
ECE 5390	Special Topics Electrical Engr	3
ECE 5391	Individual Studies	3
ECE 5392	Research Methods	3
ECE 5395	Practicum in Elect & Comp Eng	3
ECE 5396	Graduate Projects	3
ECE 5397	Graduate Projects	3

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Vision

The Department of Electrical and Computer Engineering will provide programs of the highest quality to produce world class engineers who can address challenges of the millennium.

Mission

The Department of Electrical and Computer Engineering will:

- Dedicate itself to providing its students with the skills, knowledge and attitudes which will allow its graduates to succeed as engineers and leaders.
- Maintain a vital, state-of-the art research enterprise, which provides its students and faculty with opportunities to create, interpret, apply and disseminate knowledge.
- Prepare its graduates for life-long learning to meet intellectual, ethical and career challenges.
- Recognize and act upon the special mandate to make high quality engineering education available to the residents of El Paso and the surrounding region.

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Programs

Master of Science

- M.S. in Computer Engineering (http://catalog.utep.edu/grad/college-of-engineering/electrical-computer-engineering/computer-engineering-ms/)
- M.S. in Electrical Engineering (http://catalog.utep.edu/grad/college-of-engineering/electrical-computer-engineering/electrical-engineering-ms/)

Doctor of Philosophy

- Ph.D. in Electrical and Computer Engineering (http://catalog.utep.edu/grad/college-of-engineering/electrical-computer-engineering/electrical-computer-engineering-phd/)

Certificate

- Graduate Certificate in Electric Power and Energy Systems (http://catalog.utep.edu/grad/college-of-engineering/electrical-computer-engineering/electric-power-energy-systems-graduate-certificate/)

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