



**MASTERS OF SCIENCE IN ELECTRICAL ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING
PRAIRIE VIEW A&M UNIVERSITY**



**MASTERS OF SCIENCE DEGREE IN ELECTRICAL
ENGINEERING**

The Department of Electrical Engineering at Prairie View A&M University offers graduate courses leading to a Master of Science Degree in Electrical Engineering (MSEE)

The primary objectives of the Master of Science Degree in Electrical Engineering are:

- To produce graduate students who have advanced training in one of the following areas of Electrical Engineering: Microelectronics, Computer Engineering, Telecommunications & Signal Processing.
- To produce a significant number of graduates with experience in research.
- To prepare outstanding students to pursue doctoral degrees.
- To produce post-graduates who have the technical, cognitive and interpersonal skills that will allow them to secure employment within the State of Texas and the Nation.
- To enhance the students' skills in specialized areas and provide opportunities for students to pursue careers in private industry, governmental research laboratories and design facilities.

ADMISSION REQUIREMENTS

- Submission of a completed application for admission to the Graduate School.
- An undergraduate engineering degree from an ABET (or equivalent) accredited program.
- An official transcript of all college work (undergraduate and graduate) from the registrar of each college previously attended.
- A minimum undergraduate cumulative grade point average (GPA) of 3.0 on a 4.0 scale for regular graduate degree status.
- A minimum of a 2.75 GPA on a 4.0 scale for provisional graduate student status.
- Three letters of recommendation from persons in the field of the applicants' academic major or area of concentration.
- Have GRE verbal and quantitative scores in the higher percentiles.

Recommendation for admission by the Department Head of Electrical Engineering, and formal acceptance by the Dean of the College of Engineering.

DEGREE REQUIREMENTS

The MSEE program has a thesis and a non-thesis option. The MSEE program requires the completion of 30 hours with a thesis option, or the completion 33 hours under a non-thesis option with a project.

Credit Hours for Thesis and Non-Thesis option

	<i>Thesis</i>	<i>Non-Thesis</i>
• College Core Courses	6	6
• EE required courses	6	9
• Designated Electives (Two must be in EE)	12	15
• Thesis/Project	<u>6</u>	<u>3</u>
Total	30	33

College of Engineering Core Courses

- GNEG 5033 Probability and Statistics
 - GNEG 5063 Engineering Analysis I
 - GNEG 5073 Engineering Analysis II
 - GNEG 5133 Numerical Analysis
- (Two courses from the College core are required)

ELECTRICAL ENGINEERING COURSES

Computer Engineering Track

- ELEG 6103 Advanced Computer Systems Design
- ELEG 6113 Computer Architecture & Advanced Logic Design
- ELEG 6123 The Internet: Design and Implementation
- ELEG 6133 Fault Tolerant Computing
- ELEG 6143 Modeling and Perf. of Computer Arch.
- ELEG 6153 Information Networks

Microelectronics Track

- ELEG 6403 Solid State Devices
- ELEG 6413 Integrated Circuits Fabrication
- ELEG 6423 VLSI and ULSI Design
- ELEG 6433 Semiconductor Devices
- ELEG 6543 Advanced Solid State
- ELEG 6553 Advanced Mixed Signal

Communications/ and Signal Processing Track

- ELEG 6203 Wireless Networks
- ELEG 6213 Digital Communications
- ELEG 6223 Network Management
- ELEG 6243 Advanced Broadband Communications Systems
- ELEG 6323 DSP Hardware Systems Design
- ELEG 6333 Wavelets and Their Applications
- ELEG 6353 Advanced Digital Signal Processing

Other Courses

- ELEG 5913 Engineering Project
- ELEG 5966 Research
- ELEG 5996 Thesis

For an application contact
Graduate Admissions
P. O. Box 2355
Prairie View, Texas 77446

Phone: Electrical Engineering (936) 857-3923
Fax: Electrical Engineering (936) 857-4780
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Phone: Graduate Admissions (936) 857-2315

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