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**Kansas State University  
Electrical and Computer Engineering**

**Graduate Program Outcomes**

**M.S.**

1. Demonstration of advanced knowledge in an area of specialization within electrical engineering.
2. Ability to synthesize and critically evaluate information related to subject of study within electrical engineering.
3. Ability to solve advanced electrical engineering problems using appropriate skills in mathematics, science, computation, and analysis.
4. Ability to plan and conduct scholarly activities (Thesis and Report Options).
5. Ability to communicate effectively in both written and oral forms.
6. Understanding of the ethical, social, safety, economic and environmental factors required for professional engineering practice.
7. Recognition of the need for, and ability to engage in, life-long learning and professional service.

**Ph.D.**

1. Demonstration of expert knowledge in an area of specialization within electrical engineering.
2. Ability to synthesize and critically evaluate information related to subject of study within electrical engineering.
3. Ability to solve advanced electrical engineering problems using appropriate skills in mathematics, science, computation, and analysis.
4. Ability to plan and conduct scholarly activities that make original contributions to the knowledge base in the field of study.
5. Ability to communicate effectively in both written and oral forms.
6. Understanding of the ethical, social, safety, economic and environmental factors required for professional engineering practice.
7. Recognition of the need for, and ability to engage in, life-long learning and professional service.

No outcomes are unique with respect to the university graduate outcomes.

Approved: November 13, 2003