ELECTRICAL ENGINEERING TECHNICAL ELECTIVES

A. PROFESSIONAL EMPHASIS (24 Credits Required)

Each student shall complete a total of 24 credits from the list below, as follows:

1. At least one *emphasis*, consisting of one of EE 4050, EE 4350, EE 4450, or EE 4750 from the chosen emphasis and at least 4 more credits at the 4000 level from that emphasis area;

2. At least 2 of the following courses: EE 4050, EE 4350, EE 4450, or EE 4750;

The following are the list of courses in each emphasis.

Communications and Electronics: EE 4050; EE 4430; EE 4610; EE 4620; EE 4630; EE 4010; EE 4020; EE 4980*; EE 4990*.

Computers: EE 4720; EE 4750; EE 4980*; EE 4990*.

Controls: EE 4310; EE 4320; EE 4350; EE 4980*; EE 4990*.

Power and Energy: EE 4430; EE 4440; EE 4450; EE 4980*; EE 4990*.

*NOTE: Only by approval of the chairperson.

B. ADVANCED MATH REQUIREMENTS (3 Credits Required)

Math 2730	Discrete Mathematics [(1)]	3 credits
Math 3230	Linear Algebra	3 credits
Math 3830	Differential Equations II	3 credits
Math 4030	Statistical Methods w/Applications	3 credits
Math 4430	Advanced Calculus	3 credits
Math 4530	Complex Variables	3 credits

[(1)] for Computer Emphasis only

C. ENGINEERING SCIENCE ELECTIVES (6 Credits Required)

GE 2130 Statics (3 credits)
GE 2220 Dynamics (2 credits) **or** GE 2230 Dynamics (3 credits)
GE 2340 Mechanics of Materials (4 credits)
GE 2630 Basic Thermoscience (3 credits) **or** ME 2630 Thermodynamics* (3 credits)
EP 3930 Introduction to Microsystems and Nanotechnology (3 credits)

*NOTE: Only by approval of the EE chairperson.