ELECTRICAL ENGINEERING - UW-Platteville/UW-Fox Valley Equivalent Checklist Effective Fall 2009

Name: _____ Date: _____

Student ID: _____

General Education Requirements – Associate Degree

Core Requirements:

___ 3 English 102 (Grade C or better) _____
___ 3 Math 108 or 110 (Grade C or better) _____

Breadth Requirements:

GR CR COURSE SEMESTER

Humanities/Fine Arts – Minimum of 9 credits (1 Humanities & 1 Fine Arts)

___ ___ FA _____ _____
___ ___ HU _PHI 237_____ _____
___ ___ HU or FA _____ _____

Math and Natural Science – Minimum of 11 credits (8 credits of NS in 2 disciplines with 1 LS)

___ ___ LS _____ _____
___ ___ NS/LS _____ _____
___ ___ NS/LS/MS _____ _____

Social Science – Minimum of 9 credits (2 disciplines)

___ ___ SS _____ _____
___ ___ SS _____ _____
___ ___ SS _____ _____

Application/Performance – Minimum of 3 credits

___ ___ AP _____ _____
___ ___ AP _____ _____
___ ___ AP _____ _____

Interdisciplinary Studies – Minimum of 3 credits (not included in credit total if counted in other breadth area)

___ ___ IS _____ _____

GR CR COURSE SEMESTER

Ethnic Studies – Minimum of 3 credits (not included in credit total if counted in other breadth area)

___ ___ ES _____ _____

Other Courses to reach 60 credits:

___ ___ _____ _____
___ ___ _____ _____
___ ___ _____ _____
___ ___ _____ _____
___ ___ _____ _____

_____
_____
_____
_____
_____
_____

Courses used to complete Breadth Requirements also may be used to complete Interdisciplinary or Ethnic Studies Requirements.

Students with a UW-Fox Valley Associate of Arts and Science Degree meet all UW-Platteville General Education requirements.

It is the responsibility of the student to be aware of all policies and degree requirements of both institutions as identified in the UW Colleges and UW-Platteville catalogs.

ELECTRICAL ENGINEERING
UW-Platteville/UW-Fox Valley Equivalent Checklist cont'd.

Pre-Engineering

Mathematics -- 19 Credits

___ 5 ***MAT 221 (Math 2640), Calculus & Analytic Geom. I _____**
___ 5 ***MAT 222 (Math 2740), Calculus & Analytic Geom. II _____**
___ 3 **MAT 234 (Math 2840), Calculus & Analytic Geom. III _____**
___ 3 **MAT 271 (Math 3630), Differential Equations _____**
___ 3 **Math Elective, MAT 262 (3230) or MAT 240 (4030)_____**

Basic Sciences -- 18 Credits

___ 5 ***CHE 165 (Chem 1450), Chemistry for Engineers _____**
___ 5 **PHY 201 (Phys 2530), General Physics I _____**
PHY 201 (Phys 2510) Lab
___ 5 **PHY 202 (Phys 2640), General Physics II _____**
PHY 202 (Phys 2610) Lab
___ 3 **PHY 205 (Phys 3140) Modern Physics _____ ___**

Other Courses – 10 Credits

___ 3 ***EGR 105 (GE 1000 & GE 1030), Engr. Fundamentals _____**
___ 4 **CPS 216 (COSC 1430) _____**
___ 3 **EGR 282 (GE 2820), Engineering Economics_____**

Engineering Sciences -- 6 Credits

___ 3 **MEC 201 (GE 2130), Statics _____**
___ 3 **MEC 202 (GE 2230), Dynamics _____***OR*
___ 4 **MEC 203 (GE 2340), Strength of Materials _____**

Note: Bolded classes are UW-Fox Valley courses that are equivalent to required UW-Platteville courses. Students with a UW-Fox Valley Associate of Arts and Science Degree meet all UW-Platteville General Education requirements.

* Core requirements that combine to meet a 2.3 CGPA for entry into Electrical Engineering.

Name: _____

Professional Engineering – Required Courses- 26 Credits

___ 3 EE 1210, Circuit Modeling I _____
___ 4 EE 2210, Circuit Modeling II _____
___ 4 EE 2220, Signals and Systems _____
___ 4 EE 3020, Analog Electronics _____
___ 4 EE 3140, Electric & Magnetic Fields _____
___ 4 EE 3310, Automatic Controls _____
____ 4 EE 3770, Logic and Digital Design _____

Electrical Engineering – Professional Emphasis Courses – 24 credits

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 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.

Computers
___ 4 EE 3130, Solid State Electronics _____
___ 4 EE 3780, Introduction to Microprocessors _____
___ 4 EE 4720, Microcomputer Architecture & Interfacing _____
___ 4*EE 4750, Advanced Digital Design _____
___ EE 4980, Current Topics in EE _____

Controls
___ 4 EE 3410, Electric Power Engineering _____
___ 4 EE 3780, Introduction to Microprocessors _____
___ 4 EE 4310, Modern Control Systems _____
___ 4 EE 4320, Digital Signal Processing _____
___ 4*EE 4350, Discrete Time Control Systems _____
___ 4 EE 4980, Current Topics in EE _____

Communications & Electronics Emphasis
____ 4 EE 3130, Solid State Electronics Devices _____ None
____ 4 EE 3780, Introduction to Microprocessors _____ Medium
____ 4* EE 4050, Advanced Analog Electronic Circuits _____ High
____ 4 EE 4430, Power Electronics & Electrical Machines _____ High
____ 4 EE 4610, Communication Systems _____ Low
____ 4 EE 4620, Optical Systems _____ Low
____ 4 EE 4630, Advanced Communication Systems _____ Medium
____ 1 EE 4010, UHF Amplifier Design _____ High
____ 1 EE 4020, UHF Oscillator Design _____ High

Power & Energy Emphasis
____ 4 EE 3410, Electric Power Engineering _____ Low
____ 4 EE 3780, Introduction to Microprocessors _____ Medium
____ 4 EE 4430, Power Electronics & Electrical Machines _____ High
____ 4 EE 4440 Electric Motor Drives _____ High
____ 4* EE 4450, Power Systems Analysis & Design _____ High
____ EE 4980, Current Topics in EE _____ ___
____ EE 4990, Independent Study _____ ___