



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

Name: \_\_\_\_\_

**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 -- 19 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 \_\_\_\_\_
- \_\_\_ 4 PHY 205 (Phys 3140) Modern Physics \_\_\_\_\_

Other Courses – 9 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.

**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 \_\_\_\_\_
- \_\_\_ 3 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 \_\_\_\_\_
- \_\_\_ EE 4980, Current Topics in EE \_\_\_\_\_

Advising Date & Initial \_\_\_\_\_

Advising Date & Initial \_\_\_\_\_

***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.***