

Student Name: _____ Date: _____ Gen. Ed. Requirements: ___ Met w/ Bachelor's ___ Met w/ Associate ___ Will be met w/ Assoc.

Pre-Engineering - UW Colleges / UW-PlattevilleMathematics (16-18 credits)

- ___ 5+ MAT 221 Calculus & Analytic Geom 1 (MATH 2640)
 ___ 5+ **MAT 222 Calculus & Analytic Geom 2 (MATH 2740)**
 ___ 4 MAT 223 or 234 Calculus & Analytic Geom 3 (MATH 2840)
 ___ 3+ MAT 271 Ordinary Differential Equations (MATH 3630)

Basic Sciences (18-23 credits)

- ___ 5-10 CHE 165 Chemistry for Engineers (CHEM 1450)
 or CHE 145 and 155 Gen Chemistry I and II (CHEM 1140 & 1240)
 ___ 5 PHY 201 General Physics I (PHYS 2240)
 ___ 5+ PHY 202 General Physics II (PHYS 2340)
 ___ 3^ PHY 205 Modern Physics (PHYS 3140)

Other Courses (13 credits)

- ___ 3 EGR 105 Engr Fundamentals(GE 1000/GE 1030/EE 1020)
 ___ 3 EGR 282 Engineering Economics (GE 2820)
 ___ 4^ CPS 216 Prob Solv and Prog C++ (COSC 1430)
 ___ 3 ENERGY 2130 Energy, Environmental & Society

Engineering Sciences (6-7 credits)

- ___ 3 EGR 201 Statics (GE 2130)
 ___ 3-4 EGR 202 (GE 2230), EGR 203 (GE 2340), or EGR 263 (GE 2630)

Professional Electrical Engineering – Required Courses (26 credits)

All required professional EE courses must be completed with a grade of C- or better.

- ___ 3 **EE 1210 Circuit Modeling I**
 ___ 4 EE 2210 Circuit Modeling II
 ___ 4 EE 3220 Signals and Systems
 ___ 4 EE 3020 Analog Electronics
 ___ 4 EE 3140 Electric & Magnetic Fields
 ___ 3 EE 3210 Engineering Computation
 ___ 4 EE 3770 Logic and Digital Design

- **UW College courses** have three numbers; **UW-Platteville courses** have four numbers.
- **Boldface** indicates the course must be passed with a "C" or better to matriculate into EE. As of Fall 2018, students must have completed at least 11 credits through UW-Platteville and earned a 2.5 Cumulative GPA to matriculate out of General Engineering and into Electrical Engineering.
- **Addition/Plus sign (*)** indicates the course requires a C- or better to be used as the prerequisite or co-requisite of an electrical engineering course.
- An Associate of Arts and Science degree from UW Colleges satisfies the general education requirements of UW-Platteville.

Professional Electrical Engineering - Emphasis Courses (24 credits)

Each student shall complete a total of 24 credits from the list below. At least two of the courses must come from the following list of culminating design experience courses: EE 4260, EE 4350, EE 4450, or EE 4750 (all have asterisks below). Each student shall have at least one emphasis as defined in the divisions below. The emphasis is completed by taking 4 more credits at the 4000 level in the chosen emphasis. No more than 4 credits of independent study may be used to complete the required 24 credits.

Communications & Electronics Emphasis

			Design
___	4^	EE 3130 Solid State Electronics Devices	None
___	4	EE 4040 Analog IC Design (Fall Odd Years)	Med
___	4	EE 4060 Electronic Communication (Fall Even Years)	High
___	4*	EE 4260 Measurement and Instrumentation (Spring)	High
___	4	EE 4430 Power Electronics & Elec Machines (Fall Odd Years)	High
___	1-4	EE 4980 Current Topics in EE	___
___	1-4	EE 4990 Independent Study	___

Computer Engineering Emphasis

___	4^	EE 3780 Introduction to Microprocessors	Med
___	4	EE 4720 Microcomputer Architecture & Interfacing (Spring)	High
___	4*	EE 4750 Advanced Digital Design (Fall)	High
___	1-4	EE 4980 Current Topics in EE	___
___	1-4	EE 4990 Independent Study	___

Controls Emphasis

___	4^	EE 3320 Automatic Controls	Med
___	4	EE 4310 Modern Control Systems (Spring Odd Years)	High
___	4	EE 4320 Digital Signal Processing (Spring Even Years)	High
___	4*	EE 4350 Discrete Time Control System (Fall)	High
___	1-4	EE 4980 Current Topics in EE	___
___	1-4	EE 4990 Independent Study	___

Power & Energy Emphasis

___	4^	EE 3410 Intro to Electrical Machines & Power Systems (lab)	Low
___	4	EE 4430 Power Electronics & Elec Machines (Fall Odd Years)	High
___	4	EE 4440 Electric Motor Drives (Fall Even Years)	High
___	4*	EE 4450 Power Systems Analysis & Design (Spring)	High
___	1-4	EE 4980 Current Topics in EE	___
___	1-4	EE 4990 Independent Study	___

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UW COLLEGES Associate of Arts and Science Degree - General Education Requirements

- At least 36 of the 60 credits must be completed within the UW Colleges system, or, at least 12 of the last 24 must be earned within the UW Colleges system.
• Minimum of 60 credits required. Cumulative 2.0 GPA required.

Core Requirements: Grade of C or better or exemption from the following:

- ___ 3 English 102
___ 3 Math 108 or 110

Breadth Categories:

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

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

- ___ 3 FA _____
___ 3 HU _____
___ 3 HU or FA _____

Math and Natural Science – Minimum of 11 credits

(8 credits of NS in 2 disciplines including one lab course)

Note: The math, chemistry, and physics listed on the other side of this sheet will satisfy this category.

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

Social Science – Minimum of 9 credits (From at least 2 disciplines)

- ___ ___ SS _____
___ ___ SS _____
___ ___ SS _____

Application/Performance – Minimum of 3 credits Note:

EGR 105 satisfies AP & IS requirements.

- ___ ___ AP _____
___ ___ AP _____
___ ___ AP _____

Interdisciplinary Studies – Minimum of 3 credits (not included in credit total if counted in other breadth area) Note: EGR 105 satisfies IS & AP requirements.

- ___ ___ IS _____

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

- ___ ___ ES _____

Electives: A student who has met the Core Requirements & other Breadth Category minimums may complete the 60 credit requirement with Elective courses.

- ___ ___ _____
___ ___ _____
___ ___ _____
___ ___ _____
___ ___ _____

Total Credits Earned = _____ (60 required)

Associate Degree application submitted: _____

Waiver submitted: _____