

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

### Pre-Engineering - UW-Stevens Point at Wausau / UW-Platteville

#### Mathematics (17 credits)

- \_\_\_ 5+ MATH 225 Calculus I (MATH 2640)
- \_\_\_ 5+ MATH 226 Calculus II (MATH 2740)
- \_\_\_ 4 MATH 227 Calculus III (MATH 2840)
- \_\_\_ 3+ UWP MATH 3630 Differential Equations (Fall)

#### Basic Sciences (23 credits)

- \_\_\_ 5 CHEM 105 Fundamental Chemistry I (CHEM 1140)
- \_\_\_ 5 CHEM 106 Fundamental Chemistry II (CHEM 1240)
- \_\_\_ 5 PHYS 240 University Physics I (PHYS 2240)
- \_\_\_ 5+ PHYS 250 University Physics II (PHYS 2340)
- \_\_\_ 3^ UWSP PHYS 300 Modern Physics (PHYS 3140) (Spring)

#### Other Courses (11 credits)

- \_\_\_ 3 ENGR 105 Engr Fundamentals (GENENG 1030 & ELECTENG 1020)
- \_\_\_ 2 UWP GENENG 2820 Engineering Economy (Summer online)
- \_\_\_ 3^ UWP COMPUTER 1430 Programming in C++
- \_\_\_ 3 UWP ENERGY 2130 Energy, Environmental & Society (Fall online)

#### Engineering Sciences (6-7 credits)

- \_\_\_ 3 ENGR 220 Statics (GENENG 2130)
- \_\_\_ 3 ENGR 221 Dynamics (GENENG 2230)

### 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-Stevens Point at Wausau** courses have three numbers; **UW-Platteville** courses have four numbers.
- **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 Science degree in Pre-Engineering from UW-Stevens Point at Wausau 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**

			<b>Design</b>
___	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-Stevens Point at Wausau Associate in Science Degree - General Education Requirements**

- At least 36 of the 60 credits must be completed with UW-Stevens Point at Wausau, or, at least 12 of the last 24 must be earned with UW-Stevens Point at Wausau.
- 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: \_\_\_\_\_