

MECHANICAL ENGINEERING Program Balance Sheet UW-Platteville Engineering Partnership with UW-Stevens Point at Wausau

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 (20 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)
- ___ 3 UWP MATH 4030 Statistical Analysis(Spring)

Basic Sciences (20 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)

Other Courses (8 credits)

- ___ 3 ENGR 105 Engr Fundamentals (GE 1000 & GE 1030)
- ___ 3 UWP GENENG 2030 Engineering Graphics (Summer)
- ___ 2 UWP GE 2820 Engineering Economics (Summer online)

Engineering Sciences (13 credits)

- ___ 3 ENGR 220 Statics (GENENG 2130)
- ___ 3 ENGR 221 Dynamics (GENENG 2230)
- ___ 4 ENGR 222 Mechanics of Materials (GE 2340) – Lab req'd.
- ___ 3 UWP GENENG 2930 Applications of Electrical Engineering

Professional Engineering (48-50 Credits) (2.0 GPA minimum req'd)

- ___ 3 ME 2630 Thermodynamics
- ___ 3 ME 3030 Dynamical Systems
- ___ 3 ME 3040 Engineering Materials – Lab required
- ___ 3 ME 3230 Manufacturing Processes
- ___ 3 ME 3300 Fluid Dynamics
- ___ 3 ME 3330 Design of Machine Elements
- ___ 3 ME 3430 Intro to Computational Methods
- ___ 3 ME 3640 Heat Transfer
- ___ 3 ME 3720 Mechanical Systems Lab – Lab required
- ___ 3 ME 3830 Mechanisms and Machines
- ___ 3 *ME 4330 Automatic Controls – Lab required
- ___ 2 *ME 4720 Thermal Systems Lab – Lab required
- ___ 3 *ME 4730 Thermo-Fluid Systems Design
- ___ 3 *ME 4930 Senior Design Project
- ___ 3 *ME 4xxx Technical Elective: _____
- ___ 3 *ME 4xxx Technical Elective: _____
- ___ 1-3 Choose one of the following:
 - ME 3950: Mechanical Engineering Cooperative
 - ME 3970 Mechanical Engineering Internship
 - *ME 4xxx Technical Elective
 - *ME 4940 Undergraduate Research

UW-Stevens Point at Wausau courses have three numbers.

UW-Platteville courses have four numbers.

An Associate of Science Degree in Pre-Engineering from UW-Stevens-Point at Wausau satisfies UW-Platteville's general education requirements.

All ME xxxx courses require a C- or better to progress to the next course.

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UW-Stevens Point at Wausau Associate in Science in Pre-Engineering Degree - General Education Requirements

- At least 15 of the 60 credits must be earned at the institution's three campuses.
- Minimum of 61-67 credits required. Cumulative 2.0 GPA required.

Effective Communication (EC)—6 credits

___ 3 English 150 Advanced Freshman English or 202
Sophomore English (Grade of C or better)
___ 3 EC _____

Knowledge of Human Cultures (HC)—9 credits

___ HC _____
___ HC _____
___ HC _____

**Knowledge of the Natural World (NW) -13
credits (including one Lab Science course
and one Quantitative Literacy course, grade
of C or better)**

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

___ 3 ENGR 220, Statics
___ 5 Math 225 Calculus I (QL)
___ 5 Phys 240, University Physics I (LS)

Critical and Creative Thinking (CCT) – Minimum of 6 credits

___ 3 ENGR 105 Engineering Fundamentals
___ 5 Math 226 Calculus II

Intercultural Knowledge and Competence (IK)

Minimum of 3 credits
___ IK _____

**Individual, Social, and Environmental Responsibility (SER) Minimum of 6
credits**

___ SER _____
___ SER _____

**Ethnic Studies – Minimum of 3 credits (course may be used to satisfy another
AS requirement)**

___ ES _____

Engineering Requirements:

Math and Basic Science (15-20 credits):

___ 5 Chemistry 117 **or**
___ 5 Chemistry 105 **and**
___ 5 Chemistry 106
___ 5 Physics 250

Engineering Core (3 credits):

___ 3 ENGR 221, Dynamics

Electives—choose 1 (3-4 credits):

___ 3 ENGR 107 Engineering Graphics
___ 4 ENGR 222 Mechanics of Materials
___ 3 ENGR 263 Engineering Thermodynamics
___ 4 Math 227 Calculus III
___ 3 Phys 300 Modern Physics

Total Credits Earned = _____ (61-67)

**MECHANICAL ENGINEERING
required)**

Program Balance Sheet

UW-Platteville Engineering Partnership with UW-Stevens Point at Wausau

Associate Degree application submitted:

Waiver submitted: _____