PURDUE UNIVERSITY NORTHWEST

Mechanical Engineering
Transfer Single Articulation Pathway (TSAP)
College of Engineering and Sciences

Effective 2017-2018

Admission Requirements

- Only courses with a minimum grade of "C" Can be transferred.
- The College of CES requires a minimum of 2.5/4.0 cumulative GPA for admission. See Purdue Northwest's Department of Mechanical and Civil Engineering webpage for additional program information.
- Students who have earned a Purdue Northwest BS degree in any mechanical engineering field with a GPA of 3.0/4.0 or better will have guaranteed admission to the MSE degree program at Purdue Northwest.
- Students who have earned a Purdue Northwest BS degree in any engineering field with a GPA of 3.0/4.0 or better will have guaranteed admission to the MSE degree program at Purdue Northwest.

Ivy Tech Community College - Associate of Science in Mechanical Engineering TSAP (60 Credits)

___ (5) CHEM 105 General Chemistry I
___ (3) COMM 101 Fundamentals of Speech
___ (2) ENGR 116 Geometric Modeling
___ (3) ENGR 160 Engineering Software Tool II
___ (2) ENGR 190 Intro to Engineering Design
___ (4) ENGR 251 Electric Circuits I
___ (3) ENGR 260 Vector Mechanics Statics
___ (3) ENGR 261 Dynamics
___ (3) ENGL 111 English Composition I
___ (1) IVYT 101/120 Student Success
___ (4) MATH 211 Calculus I
___ (4) MATH 212 Calculus II
___ (4) MATH 261 Multivariate Calculus
___ (3) MATH 264 Differential Equations
___ (5) PHYS 220 Mechanics
___ (5) PHYS 221 Heat, Electricity, and Optics
___ (3) Humanities Elective *
___ (3) Social & Behavioral Science Elective *

*Select approved course from Ivy Tech Transfer General Education Core Curriculum. See ITCC advisor for assistance.

Purdue University Northwest - Program Major Courses (62 credits)

__ (3) ME 30500 Thermodynamics I
__ (3) ME 31200 Fluid Mechanics
__ (1) ME 31300 Fluid Mechanics Lab
__ (3) ME 32000 Kinematic Analysis & Design
__ (3) ME 32500 Dynamics of Physical Systems
__ (3) ME 34500 Mechanical Engineering Instrumentation
__ (3) MSE 20000 Materials Science
__ (3) ME 31100 Engineering Project Management
__ (3) ME 41600 Heat Transfer
__ (1) ME 41700 Heat Transfer Lab
__ (3) MA 26500 Linear Algebra
__ (3) CE 27300 Mechanical of Materials
__ (4) ME 46100 Machine Design I
__ (3) COM/ENGL 30700 Written/Oral Communication for Engineering
__ (3) ME 42900 Senior Engineering Design I
__ (3) ME 43900 Senior Engineering Design II
Mechanical Engineering Electives (5 courses)
__ (3) PHIL 32400 Ethics for Professions

*Degree program completion requires 122 credit hours for a bachelor degree.