Associate of Science in Operations Management with a specialization in Advanced Manufacturing Processes
Licensure Disclosure

The Associate of Science in Operations Management with a specialization in Advanced Manufacturing Processes program at Indiana Wesleyan University (IWU) seeks to prepare the program graduate for licensure/certification and service as a Journeyperson in the Precision Machine, CNC, Tool & Die-making, Mold-making and Aerospace Engineering professions. Certification procedures are at the federal level through the United States Department of Labor and do not require individual state certification.

The curriculum is certified by the Department of Labor to lead to certification in:

Aerospace Engineering
Tool & Die
Precision Machining
CNC
Mold-making
Diecast dies
Boilermaking

The Bay Institute of Science and Engineering (BISE) curriculum, as outlined with blue course numbers below, are deemed equivalent through Articulation Agreement with IWU's AMP courses. Students are required to successfully complete the following courses:

1) **AMP 110 - Mechanical Engineering Blueprint Reading**
   OR
   BISE 1100 - Basic Blueprint
   BISE 2100 - Intermediate Blueprint
   BISE 3100 - Intermediate Blueprint Reading

2) **AMP 120 – Manufacturing Materials and Procedures**
   OR
   BISE 3130 - Introduction to Geometric Dimensioning and Tolerancing
   BISE 4720 - Metallurgy
   BISE 4900 - Quality Control / SPC / Inspection

3) **AMP 130 – Concepts of Mechanical Engineering Products**
   OR
   BISE 1130 - Precision Machining Technology
   BISE 2130 - Precision Machine Technology II
   BISE 5420 - Manufacturing Technology

4) **AMP 140 - Computer Numerical Controlled Machining**
   OR
   BISE 3800 - CNC Milling - Advanced Manufacturing Procedures - HAAS CNC

5) **AMP 200 - Theories of Applied Measurements**
   OR
   BISE 1120 - Basic Math
   BISE 2120 - Basic Shop Measurements and Applied Mathematics
   BISE 3120 - Intermediate Applied Math

6) **AMP 210 - Principals of Numerical Applications**
   OR
   BISE 4120 - Advanced Applied Math
   BISE 5120 - Advanced Math II

7) **AMP 220 - Product Production Systems Capstone**
   OR
   BISE 6420 - Jig & Fixturing
   BISE 6300 - Die-making
   BISE 6410 - Mold-making – Diecast

In addition to the completion of the courses outlined above, 8000 hours of specific shop time is required if the graduate desires to pursue the Journeyperson Certificate through the U.S. Department of Labor.